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Biological Services Program

FWS/OBS 81/11
January 1981

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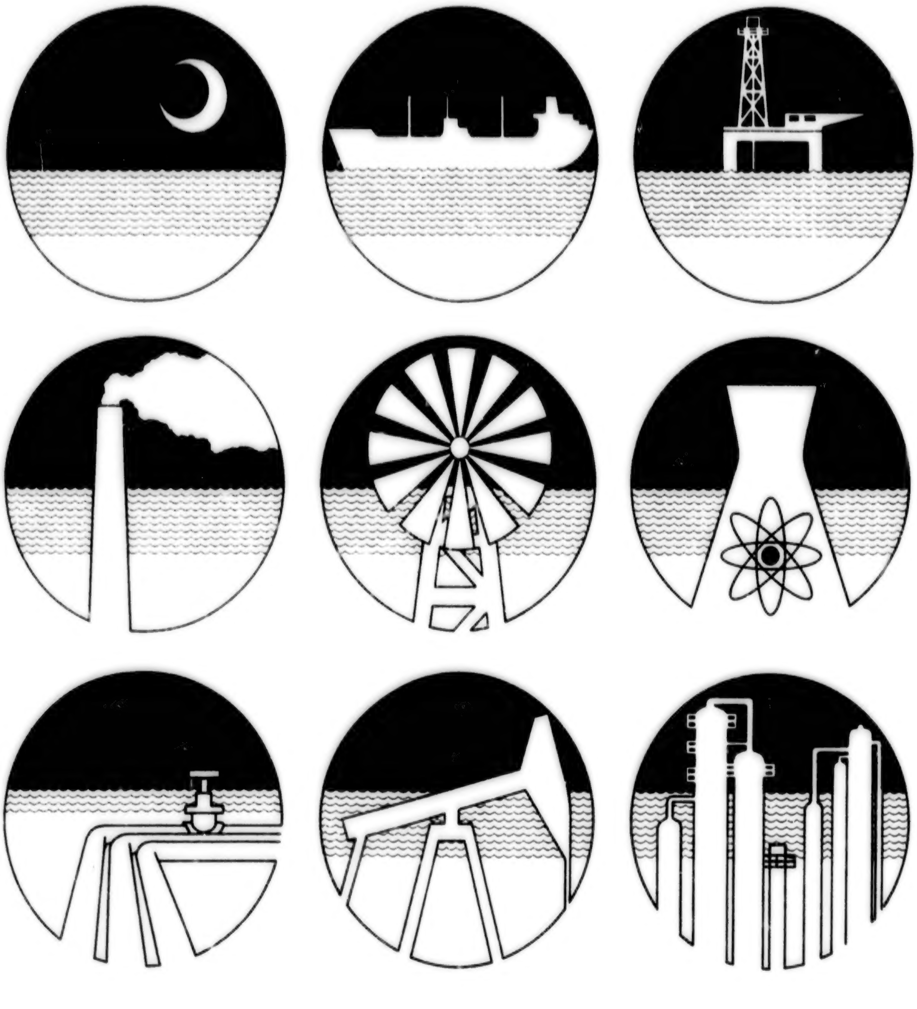
National Coastal Ecological Research: Existing and Proposed Energy Developments



Fish and Wildlife Service

U.S. Department of the Interior

The Biological Services Program was established within the U.S. Fish and Wildlife Service to supply scientific information and methodologies on key environmental issues that impact fish and wildlife resources and their supporting ecosystems. The mission of the program is as follows:

- To strengthen the Fish and Wildlife Service in its role as a primary source of information on national fish and wildlife resources, particularly in respect to environmental impact assessment.
- To gather, analyze, and present information that will aid decisionmakers in the identification and resolution of problems associated with major changes in land and water use.
- To provide better ecological information and evaluation for Department of the Interior development programs, such as those relating to energy development.

Information developed by the Biological Services Program is intended for use in the planning and decisionmaking process to prevent or minimize the impact of development on fish and wildlife. Research activities and technical assistance services are based on an analysis of the issues a determination of the decisionmakers involved and their information needs, and an evaluation of the state of the art to identify information gaps and to determine priorities. This is a strategy that will ensure that the products produced and disseminated are timely and useful.

Projects have been initiated in the following areas: coal extraction and conversion; power plants; geothermal, mineral and oil shale development; water resource analysis, including stream alterations and western water allocation; coastal ecosystems and Outer Continental Shelf development; and systems inventory, including National Wetland Inventory, habitat classification and analysis, and information transfer.

The Biological Services Program consists of the Office of Biological Services in Washington, D.C., which is responsible for overall planning and management; National Teams, which provide the Program's central scientific and technical expertise and arrange for contracting biological services studies with states, universities, consulting firms, and others; Regional Staff, who provide a link to problems at the operating level; and staff at certain Fish and Wildlife Service research facilities, who conduct inhouse research studies.

FWS/OBS-81/11
January 1981

NATIONAL COASTAL ECOLOGICAL RESEARCH: EXISTING AND PROPOSED ENERGY DEVELOPMENTS

by

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PREFACE

The purpose of this National Coastal Ecological Research report was to compile existing information about energy developments in the coastal zone. Information was gathered on existing and proposed energy developments in order to allow some assessment of future impacts in the coastal zone from energy-related developments. This document may be used as a component in coastal planning and management by decisionmakers, among others. The projections may signal areas in need of more available ecological information, to allow better planning for energy facilities, avoiding or mitigating negative impacts on fish and wildlife, as well as other resources. The information may be easily updated to facilitate planning in the future.

This project was conducted under FWS Cooperative Agreement No. 14-16-0009-78-981 with The Aerospace Corporation. The results of this study are to be used in planning future research of the FWS in the area of coastal energy development.

Questions or requests for this publication should be directed to:

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Indispensable was the help of Kay Miller in final report preparation.

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INTRODUCTION AND OVERVIEW

INTRODUCTION

The purpose of this National Coastal Ecological Research report is to provide an initial information base to be used by the U.S. Fish and Wildlife Service (FWS) Coastal Ecosystems Project in allocating their resources. The Coastal Ecosystems Project has the mission of developing information on the impacts of coastal energy development upon coastal fish and wildlife resources, for the purpose of minimizing or avoiding those impacts. This report provides an initial survey of the locations of existing and projected coastal energy development, in order to assess where future energy-resource conflicts may occur and to facilitate advance planning for the use of limited FWS resources. An ancillary objective of this advance planning effort is the minimization of time delays associated with the permit process for new facilities.

This document represents an independent evaluation of energy development problems facing coastal resources of concern to the FWS. It is a gross survey of potential energy development in the coastal zone of the United States excluding the Pacific Islands and Puerto Rico, with an emphasis on resource concerns in the future. The information base presented here, the existing and projected coastal energy development, should be used to begin a process of identification of areas facing potential energy-resource conflicts. Once such areas are identified, the process must set priorities for the commitment of limited FWS resources to address the resolution of the potential conflicts. Ultimately, when an area receives a high priority, further analysis will be needed to determine the actual impacts of particular proposed energy developments and the actual resources affected, as well as possible strategies for the avoidance or mitigation of these potential impacts. This document, while providing some general information on the nature of potential impacts from the projected development, and on the resources located in the coastal regions, is only a first step in the process of setting priorities.

The coastal zone was divided into 6 basic areas: North and Mid-Atlantic (Maine through Virginia), South Atlantic (North Carolina through Atlantic Florida), Central and Eastern Gulf (Gulf Florida through Louisiana), Texas Gulf Coast, Pacific Coast (Washington through California) and the Alaska coast. These divisions were subdivided in some of the tables and discussions, as indicated in the text, to more closely correspond to ecological divisions. Subsequent materials refer to the 6 basic divisions, unless otherwise noted.

NATIONAL OVERVIEW

The information gathered for this study is summarized in Overview Tables A through D. These tables show the existing facilities, planned expansions, proposed projects, and facilities which are postulated if some intervening event occurs. The Summary Tables clearly illustrate the concentrations of particular kinds of energy development in certain regions.

Power Generation (Overview Table A), while it is an issue throughout the country, is of particular concern in the North and Mid-Atlantic Region. It is in that area where the largest number of fossil-fueled plants and nuclear plants are located, and where the largest number of hydroelectric projects are postulated.

Concentration of oil and gas activities in the Gulf and Pacific Coasts is evident from Overview Table B. Onshore and offshore production as well as extensive support activities are indicated by the large numbers of existing facilities in those areas. Alaskan development shows up as larger numbers in the proposed and postulated categories, indicating that the future holds more potential problems there than are currently evidenced.

The magnitude of impacts from transportation and storage facilities is not necessarily reflected in the numbers (see Overview Table C). Dredging and port maintenance creates problems wherever there is port development, small or large. Coal handling and export facilities have recently engendered much discussion of major port improvements or additional dredging. Transportation of oil and gas from the offshore to onshore facilities promises to lead to a greater multitude of facilities.

Other energy development (see Overview. Table D), such as synfuels and geothermal exploration is not very extensive, but could result in significant impacts in particular areas. For instance, geothermal development, both on and offshore in the Gulf could have important impacts.

Overview Table A. Power generation.

		Area					
Development	Status	North and Mid -Atlantic	South Atlantic	Central and Eastern Gulf	Texas Gulf Coast	Pacific Coast	Alaska
Oil or gas fueled	Existing	125	37	35	19	39	7
	Expansions	9	1	1	0	0	0
	Proposed	4	0	0	0	1	0
	Postulated	0	0	0	0	0	0
Coal-fired	Existing	4	4	3	0	0	0
	Expansions	4	1	2	0	0	0
	Proposed	8	1	2	2	2	0
	Postulated	1	0	0	0	0	0
Nuclear	Existing	6	2	1	0	2	0
	Expansions	3	1	0	0	1	0
	Proposed	8	0	1	1	3	0
	Postulated	0	0	0	0	0	0
Geothermal	Existing	0	0	0	0	0	0
	Expansions	0	0	0	0	1	0
	Proposed	0	0	0	0	0	0
	Postulated	0	0	0	0	0	0
Municipal waste or refuse fuel	Existing	3	1	0	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	1	0	0	0	0	0
	Postulated	0	0	0	0	0	0
Solar	Existing	0	0	0	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	0	0	0	0	1	0
	Postulated	0	0	0	0	0	0
Wind	Existing	1	0	0	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	1	0	0	0	1	0
	Postulated	0	0	0	0	0	0
Tidal or wave power	Existing	0	0	0	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	1	0	0	0	0	0
	Postulated	0	0	0	0	0	1
Other	Existing	0	0	0	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	0	0	0	0	1	0
	Postulated	0	0	0	0	0	0
Hydroelectric dams	Existing	21	3	1	0	28	3
	Expansions	0	0	0	0	3	0
	Proposed	8	1	0	0	10	15
	Postulated	1,800	0	0	0	0	2

Overview Table B. Oil and gas.

		Area					
Development	Status	North and Mid-Atlantic	South Atlantic	Central and Eastern Gulf	Texas Gulf Coast	Pacific Coast	Alaska
Onshore wells/ production areas	Existing	0	0	15,526(wells)	14,108(wells)	6 (areas)	3 (areas)
	Expansions	0	0	0	0	0	0
	Proposed	0	0	0	0	1	6
	Postulated	0	0	0	0	0	0
Refineries	Existing	9	3	16	21	32	2
	Expansions	0	0	6	16	2	0
	Proposed	2	4	5	7	2	2
	Postulated	2	2	0	0	1	0
Offshore platforms and production areas	Existing	0	0	1 (areas)	1 (areas)	4 (areas)	14 (platforms)
	Expansions	0	0	0	0	0	0
	Proposed	0	0	1	0	0	0
	Postulated	0	0	0	0	0	0
Service bases/oil service industries	Existing	42	13	132	106	1	1
	Expansions	0	0	0	0	0	0
	Proposed	1	5	7	0	0	1
	Postulated	1	1	0	0	0	21
OCS-related support industries	Existing	0	0	49	75	2	0
	Expansions	0	0	0	0	0	0
	Proposed	0	0	0	0	3	0
	Postulated	1	0	1	0	0	0
Strategic Petroleum Reserve	Existing	0	0	2	0	0	0
	Expansions	0	0	2	1	0	0
	Proposed	0	0	1	0	0	0
	Postulated	2	0	0	0	0	0
Oil/gas separation processing plants	Existing	0	0	87	49	38	2
	Expansions	0	0	0	0	0	0
	Proposed	0	0	2	1	5	1
	Postulated	0	0	0	0	0	0
Offshore exploration OCS lease areas	Existing	2	1	2	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	2	3	3	1	7	16
	Postulated	0	0	0	0	0	0
LNG plants	Existing	3	1	1	0	1	1
	Expansions	0	0	0	0	0	0
	Proposed	4	0	1	1	1	1
	Postulated	2	2	0	1	1	10

Overview Table C. Transportation and storage facilities.

Development	Status	Area North and Mid-Atlantic	South Atlantic	Central and Eastern Gulf	Texas Gulf Coast	Pacific Coast	Alaska
Pipeline landfalls	Existing	0	1	114	29	10	2
	Expansions	0	0	0	0	0	0
	Proposed	0	0	3	1	9	0
	Postulated	4	0	0	0	0	18
Oil related	Existing	1	1	3	0	10	0
	Expansions	0	0	0	0	0	0
	Proposed	1	0	3	0	5	0
	Postulated	0	0	0	0	0	0
Gas related	Existing	0	0	0	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	2	0	0	2	0	0
	Postulated	0	0	0	0	0	0
Coal handling	Existing	4	0	2	0	0	0
	Expansions	0	0	2	0	0	0
	Proposed	1	0	2	0	1	0
	Postulated	2	2	0	0	7	2
Deepwater port	Existing	0	0	1	8	0	0
	Expansions	0	0	0	0	0	0
	Proposed	1	0	0	3	0	0
	Postulated	2	0	0	0	3	0
Major port	Existing	5	4	4	9	12	0
	Expansions	0	0	0	0	0	0
	Proposed	0	0	0	0	0	0
	Postulated	0	0	0	0	0	0
Marine terminals	Existing	0	0	0	0	23	3
	Expansions	0	0	0	0	1	0
	Proposed	0	0	3	0	8	0
	Postulated	0	0	0	0	0	10

Overview Table D. Other energy development.

Development	Status	North and Mid-Atlantic	South Atlantic	Central and Eastern Gulf	Texas Gulf Coast	Pacific Coast	Alaska
		Area					
Coal-related synfuels	Existing	0	0	0	0	1	0
	Expansions	0	0	0	0	0	0
	Proposed	2	0	2	4	1	0
	Postulated	1	1	1	0	1	1
Biomass-related Synfuels	Existing	1	0	0	0	1	0
	Expansions	0	0	0	0	0	0
	Proposed	3	0	5	0	0	0
	Postulated	3	1	0	0	3	0
Geothermal-geopressure exploration	Existing	1	0	2	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	0	0	6	7	1	0
	Postulated	0	0	0	0	0	1
Miscellaneous	Existing	0	0	1	0	0	0
	Expansions	0	0	0	0	0	0
	Proposed	0	1	0	0	0	0
	Postulated	0	0	0	0	0	0

TRENDS AND OUTLOOK FOR ENERGY DEVELOPMENTS

POWER GENERATION

The trend for demand of electricity, and therefore of power plants, is difficult to determine as there is much controversy surrounding the topic. The utility industry has consistently predicted demand to be higher than has been actually experienced in recent years. The U.S. Department of Energy (DOE) predicts national growth rates of somewhat less: 2.1% to 2.9% per year through 1983 (June 1980). Other energy policy critics claim that with increased use of conservation, solar or alternative methods of water and space heating, the demand for electricity from power plants can actually drop. Indeed, the actual growth in the use of electricity has been lower than predicted by government and industry for the last several years (U.S. DOE, 1980b).

Individual utilities, facing uncertain future electrical demand, as well as difficulties in obtaining financing for the large capital expenditures required for new power plant construction, have allowed plans for new plants to be postponed, sometimes indefinitely. The permit process and environmental siting problems have also been cited as reasons for delay in the construction of new power plants.

DOE's analysis of power supply and demand is based on reports from the National Electric Reliability Council (NERC) which was formed in 1968 with the stated purpose: ". . . .further to augment the RELIABILITY and ADEQUACY of bulk power supply in the electric utility systems of North America." It consists of nine Regional Reliability Councils as illustrated in Figure 1; and encompasses essentially all of the power systems of the United States and Canadian systems in Ontario, British Columbia, Manitoba, New Brunswick and Alberta.

The councils encompassing coastal areas are:

Northeast Power Coordinating Council (NPCC) - ME, NH, MA, RI, CT, NY
Mid-Atlantic Area Council (MAAC) - NJ, DE, MD
Southeastern Electric Reliability Council (SERC) - VA, NC, SC, GA, FL, AL
Southwest Power Pool (SPP) - LA, TX, MS
Electric Reliability Council of Texas (ERCOT) - TX
Western Systems Coordinating Council (WSCC) - WA, OR, CA

In the following discussions of power demand and projected fuel usage, we use the figures provided by these councils. These figures include the entire region, not just coastal areas; however, it is assumed, accepting some variation because of the difficulty in locating more accurate data, that the ratios of fuel use and growth in the coastal zone will be similar to those in the region as a whole.

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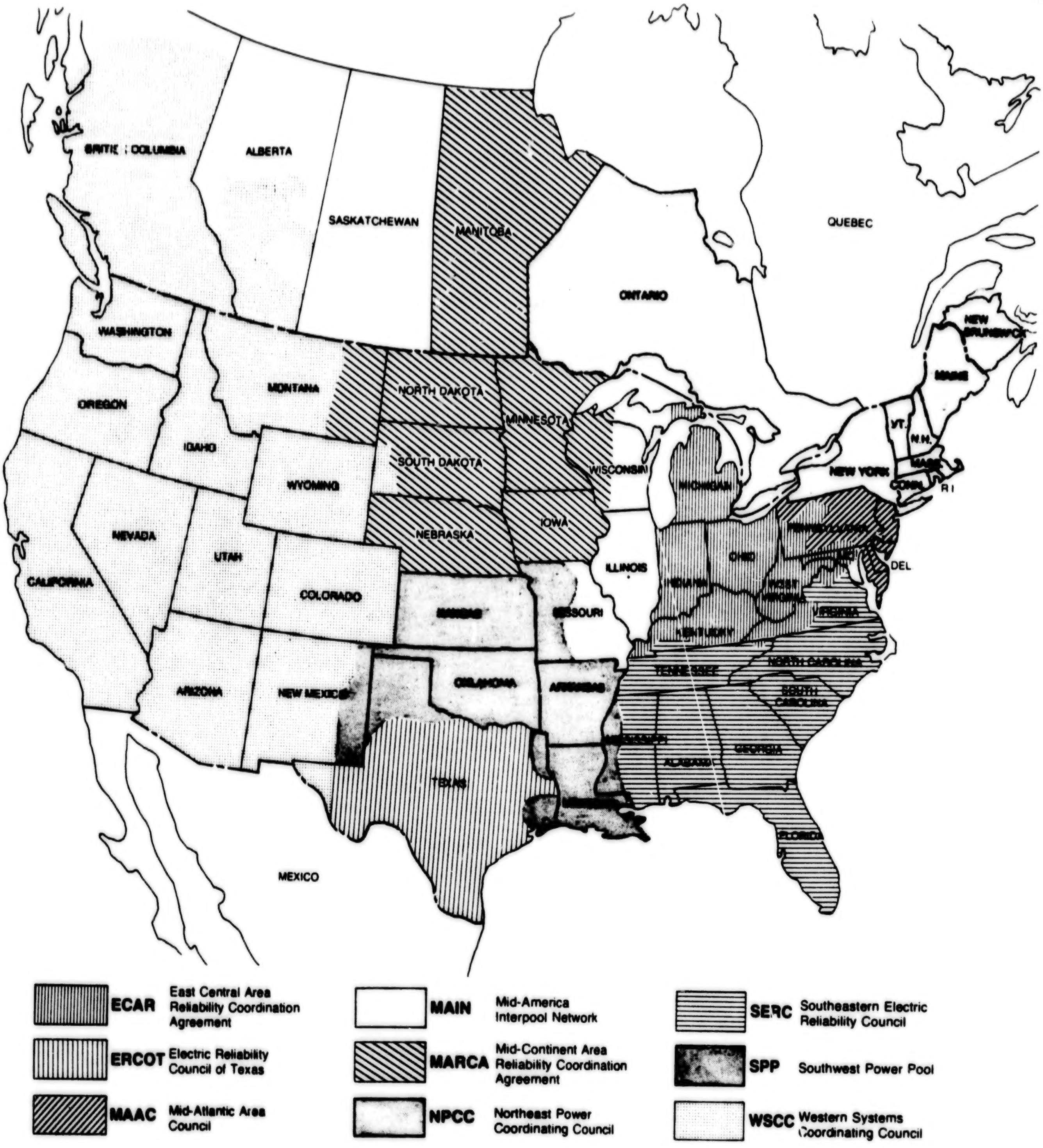


Figure 1. National Electric Reliability Council regions.
(National Electric Reliability Council, 1980a)

Table 1 shows actual growth rates of demand, with NERC and DOE estimates of future growth of demand. The table indicates the highest projected growth in the Gulf region (SPP and ERCOT), followed by the Western region (WSCC). The New England area is not expected to grow significantly. However, projected retirements and capacity reductions or deratings of existing power plants require the building of new replacement capacity (U.S. DOE, 1980b).

Table 1. Actual and projected average growth rates (%)
of annual electric energy requirements
for Reliability Council Areas - 1976-1983.
(U.S. DOE, 1980b)

Council	Council Projection 1980-1983	Actual Growth		DOE Estimate[a]
		1976-1979 Average	1978-1979 Average	1980-1983 Average
ERCOT	5.80	7.91	2.10	3.87
MAAC	3.45	2.61	1.59	1.11
NPCC	1.74	2.18	1.41	(0.20)[b]
SERC	5.26	2.61	0.04	1.02
SPP	6.55	5.08	0.10	5.71
WSCC	5.12	3.65	3.71	2.67
Total U.S.[c]	4.54	3.63	1.84	2.06

[a] Based on analysis of differences between the annual energy requirements projected by the Councils in the years 1976-1979 for those years, and the actual energy requirements as later reported.

[b] Although the DOE error analysis procedure yields a negative growth rate here, a zero growth rate would not be an unreasonable estimate.

[c] All 9 Reliability Council areas.

Table 2 (following page) shows the projected capacity increases and the percentage of capacity (where known) to be provided by selected types of units. Figure 2 shows graphically the fuel mix for electric generation for the nation as a whole, and broken down by region.

Coastal areas have been favored sites for power plants because of access to cooling water; however, this is counterbalanced by public sentiment and additional regulation by coastal agencies. The future trend for new plant construction is expected to be toward inland sites or rural coastal areas rather than urban coastal areas (Princeton University Center for Environmental Studies, 1979). This trend is substantiated by DOE estimates that while 45% of existing electrical generation capacity in coastal states is

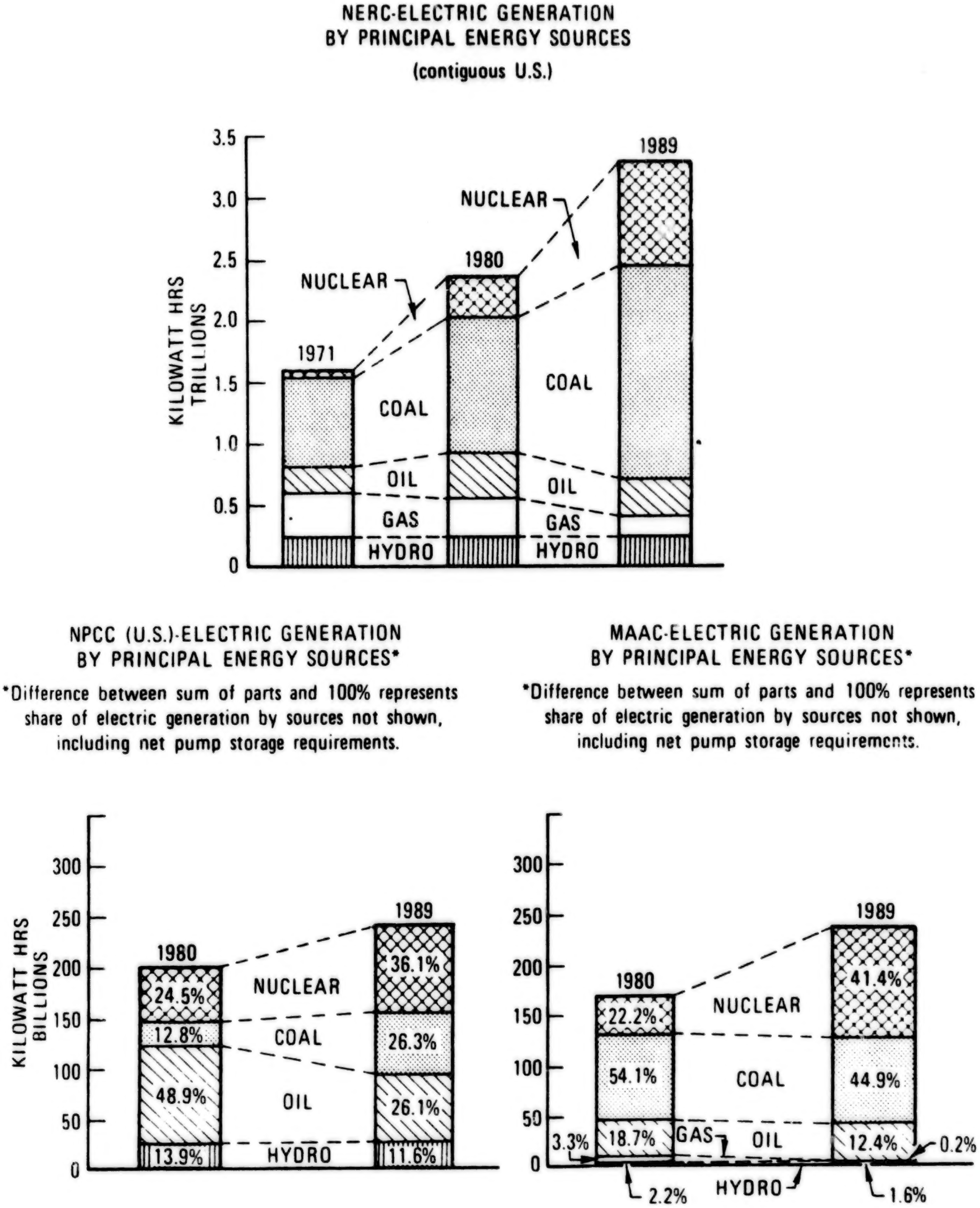
Table 2. Capacity increases projected by Councils, summer 1979 to summer 1989 (adapted from U.S. DOE, 1980b).

Council	Capacity Increase (MW)	Approximate % of Capacity Increase Nuclear	Fossil (Incl. Coal)	Hydro
NPCC	10,758	60.4		
MAAC	11,261	72.4	42.6	1.8[a]
SERC	55,141	55.6		
SPP	31,417	23.2	82.8	0.1[a]
ERCOT	18,239	32.5		
WSCC	48,444	32.1		

[a] Discrepancies over 100% are balanced by expected loss of capacity from retirements and deratings.

located in coastal counties, only 36% of projected capacity in coastal states will be in coastal counties (Emmet Turner, personal communication).

The following sections discuss specific types of power generation and facility locations.



NERC-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES (contiguous U.S.)

NPCC (U.S.)-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES*

*Difference between sum of parts and 100% represents share of electric generation by sources not shown, including net pump storage requirements.

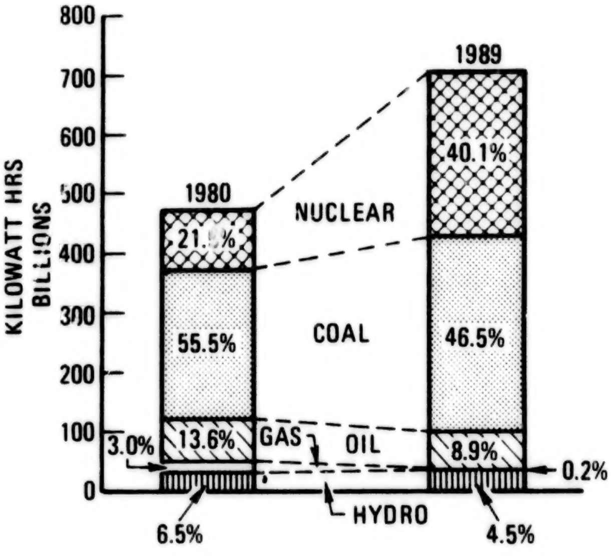
MAAC-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES*

*Difference between sum of parts and 100% represents share of electric generation by sources not shown, including net pump storage requirements.

Figure 2. Electric generation by principal energy sources.
(National Electric Reliability Council, 1980b)

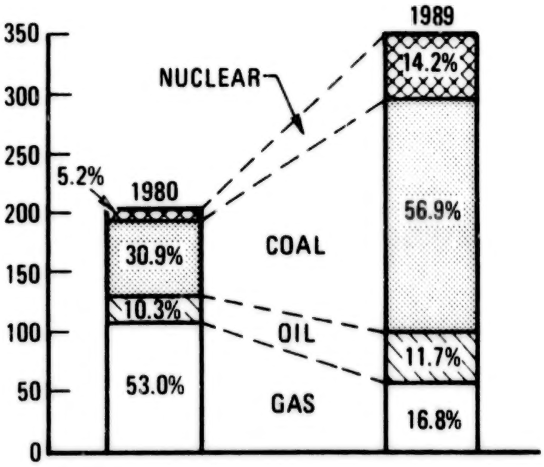
SERC-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES*

*Difference between sum of parts and 100% represents share of electric generation by sources not shown, including net pump storage requirements.



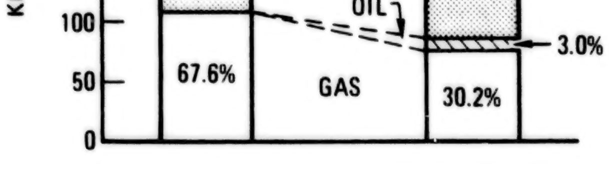
SPP-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES*

*Difference between sum of parts and 100% represents share of electric generation by sources not shown, including net pump storage requirements.



ERCOT-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES*

*Difference between sum of parts and 100% represents share of electric generation by sources not shown, including net pump storage requirements.



WSCC (U.S.)-ELECTRIC GENERATION BY PRINCIPAL ENERGY SOURCES*

*Difference between sum of parts and 100% represents share of electric generation by sources not shown, including net pump storage requirements.

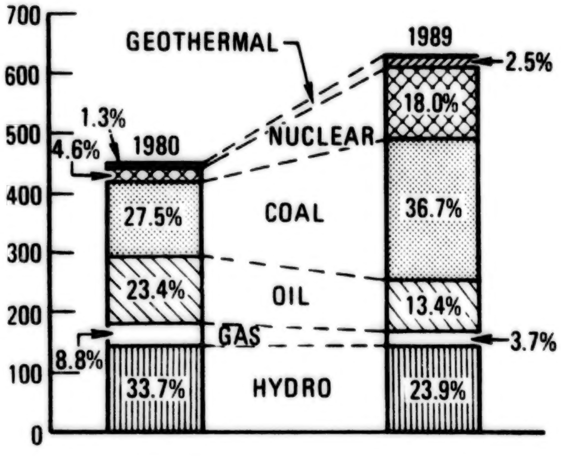


Figure 2 continued.

Oil and Natural Gas Fueled Power Plants

Tables 3 through 8 list the existing, expanding and proposed oil and natural gas fueled power plants by region. These types of power plants are the most numerous, and they constitute the bulk of the energy development in the Northeastern area of the country. They also constitute a substantial part of the energy development in the rest of the country.

Table 3. Oil and natural gas fueled power plants in the North Atlantic.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
2	ME WASHINGTON		RIVER STREET	EXIST	0
3	ME WASHINGTON		PORTABLE	EXIST	0
4	ME WASHINGTON		EAST MACHIAS	EXIST	0
5	ME WASHINGTON		EASTPORT	EXIST	0
8	ME HANCOCK	BAR HARBOR	BAR HARBOR	EXIST	0
10	ME WALDO		ISLESBORO	EXIST	0
14	ME KNOX		ROCKLAND	EXIST	0
15	ME LINCOLN	WISCASSET	MASON	EXIST	0
19	ME CUMBERLAND		CAPE	EXIST	0
21	ME CUMBERLAND		PEAKS ISLAND	EXIST	0
22	ME CUMBERLAND	YARMOUTH	W F WYMAN	EXIST	0
34	NH ROCKINGHAM		DANIEL STREET	EXIST	0
35	NH ROCKINGHAM		SCHILLER	EXIST	0
36	NH ROCKINGHAM	NEWINGTON	NEWINGTON	EXIST	0
43	MA ESSEX		IPSWICH	EXIST	0
44	MA ESSEX	MARBLEHEAD	COMMERCE ST. 2	EXIST	0
45	MA ESSEX	MARBLEHEAD	WILKINS STATION	EXIST	0
46	MA ESSEX		GLOUCESTER	EXIST	0
47	MA ESSEX		NEWBURYPORT	EXIST	0
49	MA ESSEX		LYNNWAY	EXIST	0
55	MA ESSEX		WARREN ST.	EXIST	0
70	MA MIDDLESEX		FRAMINGHAM	EXIST	0
75	MA MIDDLESEX	EVERETT	MYSTIC	EXIST	0
80	MA MIDDLESEX		BLACKSTONE STREET	EXIST	0
85	MA MIDDLESEX		KENDALL SQUARE	EXIST	0
95	MA SUFFOLK	S BOSTON	L STREET	EXIST	0
100	MA SUFFOLK	S BOSTON	NEW BOSTON	EXIST	0
130	MA NORFOLK		WEST MEDWAY	EXIST	0
135	MA NORFOLK		ALLEN STREET	EXIST	0
140	MA NORFOLK		POTTER STATION	EXIST	0
160	MA BARNSTABLE	SANDWICH	CANAL	EXIST	0
170	MA DUKES		OAK BLUFFS	EXIST	0
190	MA BRISTOL	TAUNTON	CLEARY-FLOOD	EXIST	0
200	MA BRISTOL		WEST WATER STREET	EXIST	0
48	MA ESSEX	SALEM	SALEM HARBOR	EXPAN	0
90	MA MIDDLESEX		CHERRY STREET	EXPAN	80
120	MA NORFOLK	N WEYMOUTH	EDGAR	EXPAN	0
175	MA DUKES		WEST TISBURY	EXPAN	83
180	MA BRISTOL		CANNON STREET	EXPAN	84
205	MA BRISTOL	SOMERSET	SOMERSET	EXPAN	87
210	MA BRISTOL	SOMERSET	MONTAUP	EXPAN	0
25	ME CUMBERLAND	YARMOUTH	COUSINS ISLAND	PROP	0
50	MA ESSEX	PEABODY	WATERS RIVER	PROP	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 4. Oil and natural gas fueled power plants in the New York Bight and Delaware Bay areas.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
250	RI NEWPORT		JEPSON	EXIST	0
255	RI NEWPORT		NEWPORT	EXIST	0
265	RI NEWPORT	BRISTOL	ELDRED	EXIST	0
290	RI PROVIDENCE	PROVIDENCE	MANCHESTER STREET	EXIST	0
295	RI PROVIDENCE		SOUTH STREET	EXIST	0
300	RI PROVIDENCE		NORTH SHOREHAM	EXIST	0
345	CT NEW LONDON	UNCASVILLE	MONTVILLE	EXIST	0
365	CT NEW LONDON	USN BASE	NEW LONDON	EXIST	0
375	CT NEW LONDON	NORWICH	NORTH MAIN	EXIST	0
395	CT MIDDLESEX	MIDDLETOWN	MIDDLETOWN	EXIST	0
400	CT NEW HAVEN		BRANFORD	EXIST	0
405	CT NEW HAVEN	MILFORD	DEVON	EXIST	0
410	CT NEW HAVEN		ENFIELD	EXIST	0
420	CT NEW HAVEN	NEW HAVEN	ENGLISH	EXIST	0
425	CT NEW HAVEN	NEW HAVEN	NEW HAVEN HARBOR	EXIST	0
435	CT FAIRFIELD		COS COB	EXIST	0
440	CT FAIRFIELD	SO NORWALK	NORWALK HARBOR	EXIST	0
450	CT FAIRFIELD		SOUTH NORWALK	EXIST	0
455	CT FAIRFIELD	BRIDGEPORT	BRIDGEPORT HARBOR	EXIST	0
460	CT FAIRFIELD	BRIDGEPORT	STEEL POINT	EXIST	0
470	NY WESTCHESTER		INDIAN POINT	EXIST	0
480	NY SUFFOLK		GREENPORT	EXIST	0
485	NY SUFFOLK		EAST HAMPTON	EXIST	0
490	NY SUFFOLK		MONTAUK	EXIST	0
495	NY SUFFOLK	PORT JEFFERSON	PORT JEFFERSON	EXIST	0
500	NY SUFFOLK	NORTHPORT	NORTHPORT	EXIST	0
510	NY SUFFOLK		SHOREHAM	EXIST	0
515	NY SUFFOLK		SOUTHAMPTON	EXIST	0
520	NY SUFFOLK		SOUTHOLD	EXIST	0
525	NY SUFFOLK	CENTERREACH	WEST BABYLON	EXIST	0
530	NY SUFFOLK	CENTERREACH	HOLBROOK	EXIST	0
535	NY NASSAU		ROCKVILLE	EXIST	0
540	NY NASSAU		FREEPORT 1/2	EXIST	0
545	NY NASSAU	ISLAND PARK	BARRETT	EXIST	0
560	NY QUEENS	NYC	ASTORIA	EXIST	0
565	NY QUEENS	NYC	RAVENSWOOD	EXIST	0
570	NY QUEENS	NYC	FAR ROCKAWAY	EXIST	0
575	NY KINGS	NYC	GOWANUS	EXIST	0
580	NY KINGS	NYC	HUDSON AVE	EXIST	0
585	NY KINGS	NYC	KENT AVE	EXIST	0
590	NY KINGS	NYC	NARROWS	EXIST	0
600	NY NEW YORK	NYC	EAST RIVER	EXIST	0
605	NY NEW YORK	NYC	WATERSIDE	EXIST	0
610	NY NEW YORK	NYC	59TH STREET	EXIST	0
615	NY NEW YORK	NYC	74TH STREET	EXIST	0
630	NY RICHMOND	STATEN ISLAND	ARTHUR KILL	EXIST	0
660	NJ BERGEN		BERGEN	EXIST	0
665	NJ HUDSON		BAYONNE	EXIST	0
670	NJ HUDSON		HUDSON	EXIST	0
675	NJ HUDSON	KEARNY	KEARNY	EXIST	0
680	NJ ESSEX	NEWARK	ESSEX	EXIST	0
685	NJ UNION	UNION	LINDEN	EXIST	0
695	NJ MIDDLESEX	NEW BRUNSWICK	EDISON	EXIST	0
700	NJ MIDDLESEX	SEAWAREN	SEAWAREN	EXIST	0
705	NJ MIDDLESEX	SOUTH RIVER	WHITEHEAD	EXIST	0
710	NJ MIDDLESEX	NEW BRUNSWICK	WERNER	EXIST	0
715	NJ MIDDLESEX	SAYREVILLE	SAYREVILLE	EXIST	0
765	NJ ATLANTIC		MISSOURI AVE	EXIST	0
790	NJ CAPE MAY		MIDDLE	EXIST	0
800	NJ CUMBERLAND		HOWARD DOWN	EXIST	0
805	NJ CUMBERLAND		WEST	EXIST	0
810	NJ CUMBERLAND		CARLLS CORNER	EXIST	0
815	NJ CUMBERLAND		CEDAR	EXIST	0
820	NJ SALEM	DEEPWATER	DEEPWATER	EXIST	0
260	RI NEWPORT		UNSITED	PROP	82
770	NJ ATLANTIC	UNSITED	UNSITED	PROP	82

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 5. Oil and natural gas fueled power plants in the Chesapeake Bay area.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
850	DE	NEW CASTLE		CHRISTIANA	EXIST	0
855	DE	NEW CASTLE	DELAWARE CITY	DELAWARE CITY	EXIST	0
865	DE	NEW CASTLE		MADISON STREET	EXIST	0
870	DE	NEW CASTLE		WEST SUBSTATION	EXIST	0
890	DE	KENT		KENT	EXIST	0
895	DE	KENT	DOVER	MCKEE RUN	EXIST	0
905	DE	SUSSEX		LEWES	EXIST	0
910	DE	SUSSEX		SEAFORD	EXIST	0
930	MD	WORCESTER		BERLIN	EXIST	0
935	MD	SOMERSET		CRISFIELD	EXIST	0
950	MD	DORCHESTER	VIENNA	VIENNA	EXIST	0
970	MD	HARFORD		PERRYMAN	EXIST	0
975	MD	BALTIMORE	BALTIMORE	CRANE	EXIST	0
980	MD	BALTIMORE	BALTIMORE	GOULD STREET	EXIST	0
985	MD	BALTIMORE	BALTIMORE	NOTCH CLIFF	EXIST	0
990	MD	BALTIMORE	BALTIMORE	PHILADELPHIA RD	EXIST	0
995	MD	BALTIMORE	BALTIMORE	RIVERSIDE	EXIST	0
1000	MD	BALTIMORE	BALTIMORE	WESTPORT	EXIST	0
1045	MD	ANN ARUNDEL	BALTIMORE	WAGNER	EXIST	0
1085	VA	ACCOMACK		TASLEY	EXIST	0
1090	VA	ACCOMACK		TANGIER	EXIST	0
1095	VA	NORTHAMPTON		BAYVIEW	EXIST	0
1100	VA	NORTHAMPTON		CAPE CHARLES	EXIST	0
1105	VA	RICHMOND		NORTHERN NECK	EXIST	0
1110	VA	YORK	YORKTOWN	YORKTOWN	EXIST	0
1115	VA	YORK	USN	NORFOLK NAVAL BASE	EXIST	0
1140	VA	PORTSMOUTH		PORTSMOUTH	EXIST	0
860	DE	NEW CASTLE	EDGEMOOR	EDGEMOOR	EXPAN	0
960	MD	TALBOT		EASTON	EXPAN	86

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 6. Oil and natural gas fueled power plants in the South Atlantic.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
1175	NC DARE		BUXTON	EXIST	0
1180	NC DARE		KITTY HAWK	EXIST	0
1185	NC HYDE		HYDE	EXIST	0
1195	NC CARTERET		MOREHEAD	EXIST	0
1250	SC HORRY		MYRTLE BEACH	EXIST	0
1290	SC CHARLESTON		FABER PLACE	EXIST	0
1295	SC CHARLESTON		HAGOOD	EXIST	0
1300	SC CHARLESTON		MOBILE	EXIST	0
1340	SC BEAUFORT		BURTON	EXIST	0
1345	SC BEAUFORT		BLUFFTON	EXIST	0
1350	SC BEAUFORT		HILTON HEAD	EXIST	0
1360	SC JASPER		HARDEEVILLE	EXIST	0
1375	GA CHATHAM		BOULEVARD	EXIST	0
1380	GA CHATHAM	PORT WENTWORTH	PORT WENTWORTH	EXIST	0
1385	GA CHATHAM	SAVANNAH	RIVERSIDE	EXIST	0
1420	GA GLYNN	ST SIMONS SOUND	MCMANUS	EXIST	0
1455	FL NASSAU		LIME STREET	EXIST	0
1460	FL DUVAL	JACKSONVILLE	KENNEDY	EXIST	0
1465	FL DUVAL	JACKSONVILLE	NORTHSIDE	EXIST	0
1470	FL DUVAL	JACKSONVILLE	SOUTHSIDE	EXIST	0
1495	FL VOLUSIA		SANFORD	EXIST	0
1500	FL VOLUSIA		TURNER	EXIST	0
1505	FL VOLUSIA		DEBARY	EXIST	0
1510	FL VOLUSIA		NEW SMYRA	EXIST	0
1515	FL VOLUSIA		PEAK PLANT	EXIST	0
1520	FL VOLUSIA		W E SWOOPE	EXIST	0
1525	FL BREVARD	COCOA	CAPE CANAVERAL	EXIST	0
1540	FL INDIAN RIVER	VERO BEACH	MUNICIPAL PLANT	EXIST	0
1550	FL ST LUCIE	FORT PIERCE	KING	EXIST	0
1555	FL MARTIN	PALMBEACH	MARTIN	EXIST	0
1570	FL PALM BEACH	RIVIERA BEACH	RIVIERA	EXIST	0
1575	FL PALM BEACH		TOM G SMITH	EXIST	0
1580	FL BROWARD	FORT LAUDERDALE	LAUDERDALE	EXIST	0
1585	FL BROWARD	PORT EVERGLADES	PORT EVERGLADES	EXIST	0
1610	FL DADE		MOBILE TRAILER	EXIST	0
1615	FL DADE	FLORIDA CITY	TURKEY POINT	EXIST	0
1625	FL DADE	HOMESTEAD	GW IVEY	EXIST	0
1630	FL DADE	SO MIAMI	CUTLER	EXIST	0
1530	FL BREVARD	TITUSVILLE	INDIAN RIVER	EXPAN	82

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 7. Oil and natural gas fueled power plants in the Gulf of Mexico area.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
1650	FL	ESCAMBIA	USN-PENSACOLA	TR CENT	EXIST	0
1675	FL	WALTON		PORTLAND	EXIST	0
1690	FL	GULF	PORT ST JOE	PORT ST JOE	EXIST	0
1695	FL	WAKULLA		PURDOM	EXIST	0
1715	FL	PASCO		ANCLOTE	EXIST	0
1720	FL	PINELLAS		BAYBORO	EXIST	0
1725	FL	PINELLAS		HIGGINS	EXIST	0
1730	FL	PINELLAS	ST PETERSBURG	BARTOW	EXIST	0
1755	FL	HILLSBOROUGH		GANNON	EXIST	0
1760	FL	HILLSBOROUGH		HOOKERS POINT	EXIST	0
1765	FL	MANATEE		MANATEE	EXIST	0
1815	FL	LEE		FORT MEYERS	EXIST	0
1830	FL	MONROE	MARATHON	MARATHON	EXIST	0
1835	FL	MONROE	KEY WEST	KEY WEST	EXIST	0
1840	FL	MONROE		STOCK ISLAND	EXIST	0
1845	FL	MONROE		CUDJOE	EXIST	0
1865	AL	MOBILE		CHICKASAW	EXIST	0
2000	MS	HARRISON	GULFPORT	WATSON	EXIST	0
2030	MS	JACKSON	PASCAGOULA	STANDARD OIL	EXIST	0
2035	MS	JACKSON	MOSS POINT	VICTOR J DANIEL	EXIST	0
2125	LA	CALCASIEU		NELSON	EXIST	0
2270	LA	ST MARY		TECHE	EXIST	0
2275	LA	ST MARY		MORGAN CITY	EXIST	0
2320	LA	TERREBONNE	HOUMA	HOUMA	EXIST	0
2385	LA	LAFOURCHE	THIBODAUX	THIBODAUX	EXIST	0
2465	LA	ST CHARLES		LITTLE GYPSY	EXIST	0
2470	LA	ST CHARLES	TAFT	WATERFORD	EXIST	0
2510	LA	JEFFERSON		NINE MILE POINT	EXIST	0
2525	LA	PLAQUEMINES		BURAS	EXIST	0
2600	LA	ORLEANS		PATTERSON	EXIST	0
2605	LA	ORLEANS		MARKET STREET	EXIST	0
2610	LA	ORLEANS		MICHOUD	EXIST	0
2615	LA	ORLEANS	(N O SEWAGE)	POWER HOUSE 2	EXIST	0
2620	LA	ORLEANS	(N O SEWAGE)	STATION C	EXIST	0
2660	TX	CAMERON		BROWNSVILLE	EXIST	0
2665	TX	CAMERON		LA PALMA	EXIST	0
2740	TX	NUECES		LON C HILL	EXIST	0
2745	TX	NUECES		NUECES BAY	EXIST	0
2750	TX	NUECES		BARNEY DAVIS	EXIST	0
2755	TX	NUECES		ROBSTOWN	EXIST	0
2865	TX	CALHOUN		JOSLIN	EXIST	0
2910	TX	VICTORIA		VICTORIA	EXIST	0
2915	TX	VICTORIA		SAM RAYBURN	EXIST	0
3065	TX	GALVESTON	TEXAS CITY	ROBINSON	EXIST	0
3095	TX	HARRIS	VARIOUS	7 POWER PLANTS	EXIST	0
3175	TX	CHAMBERS		CEDAR BAYOU	EXIST	0
3220	TX	JEFFERSON	PORT NECHES	NECHES	EXIST	0
1750	FL	HILLSBOROUGH		BIG BEND	EXPAN	83

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 8. Oil and natural gas fueled power plants in the Pacific Coast and Alaska areas.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
3305	CA	HUMBOLDT	EUREKA	HUMBOLDT BAY	EXIST	0
3340	CA	CONTRA COSTA		AVON STEAM	EXIST	0
3345	CA	CONTRA COSTA	ANTIOCH	CONTRA COSTA	EXIST	0
3350	CA	CONTRA COSTA	PITTSBURG	PITTSBURG	EXIST	0
3355	CA	CONTRA COSTA	RODEO	OLEUM	EXIST	0
3380	CA	CONTRA COSTA	MARTINEZ	MARTINEZ	EXIST	0
3410	CA	ALAMEDA	OAKLAND	OAKLAND	EXIST	0
3420	CA	SAN FRANCISCO	SAN FRANCISCO	HUNTERS POINT	EXIST	0
3425	CA	SAN FRANCISCO	SAN FRANCISCO	POTRERO	EXIST	0
3445	CA	MONTEREY	MOSS LANDING	MOSS LANDING	EXIST	0
3470	CA	SN LUIS OBISPO	MORRO BAY	MORRO BAY	EXIST	0
3565	CA	SANTA BARBARA	ELWOOD	ELWOOD	EXIST	0
3585	CA	VENTURA	VENTURA	MANDALAY	EXIST	0
3590	CA	VENTURA	VENTURA	ORMOND BEACH	EXIST	0
3650	CA	LOS ANGELES	EL SEGUNDO	EL SEGUNDO	EXIST	0
3655	CA	LOS ANGELES	EL SEGUNDO	SCATTERGOOD	EXIST	0
3660	CA	LOS ANGELES	REDONDO BEACH	REDONDO BEACH	EXIST	0
3665	CA	LOS ANGELES	LONG BEACH HARBOR	HARBOR	EXIST	0
3670	CA	LOS ANGELES	LONG BEACH HARBOR	LONG BEACH	EXIST	0
3675	CA	LOS ANGELES	LONG BEACH	ALAMITOS	EXIST	0
3680	CA	LOS ANGELES	LONG BEACH	HAYNES	EXIST	0
3780	CA	ORANGE	HUNTINGTON BEACH	HUNTINGTON	EXIST	0
3830	CA	SAN DIEGO	ENCINA	ENCINA	EXIST	0
3835	CA	SAN DIEGO	SAN DIEGO	STATION B	EXIST	0
3840	CA	SAN DIEGO	SAN DIEGO	SILVERGATE	EXIST	0
3845	CA	SAN DIEGO	SAN DIEGO	SOUTH BAY	EXIST	0
3880	OR	MULTNOMAH	PORTLAND	LINCOLN STREET	EXIST	0
3885	OR	MULTNOMAH	PORTLAND	HARBORTON	EXIST	0
3890	OR	MULTNOMAH	PORTLAND	STATION L	EXIST	0
3900	OR	COLUMBIA	CLATSKANIE	BEAVER	EXIST	0
4010	OR	LANE		WILLAMETTE	EXIST	0
4020	OR	LANE		WEYCO CENTER	EXIST	0
4145	WA	WHATCOM		WHITEHORN	EXIST	0
4210	WA	KING		SHUFFLETON	EXIST	0
4230	WA	KING		GEORGETOWN	EXIST	0
4235	WA	KING		LAKE UNION	EXIST	0
4265	WA	PIERCE		CRYSTAL MOUNTAIN	EXIST	0
4300	WA	ISLAND		SOUTH WHIDBEY	EXIST	0
4305	WA	SAN JUAN		EAST SOUND	EXIST	0
4570	AK	ANCHORAGE	ANCHORAGE	ANCHORAGE 1/2	EXIST	0
4575	AK	ANCHORAGE	ANCHORAGE	SULLIVAN	EXIST	0
4580	AK	ANCHORAGE	ANCHORAGE	INTERNATIONAL	EXIST	0
4590	AK	MATANUSKA	COOK INLET	KNIK ARM	EXIST	0
4595	AK	MATANUSKA	COOK INLET	BELUGA	EXIST	0
4695	AK	KENAI	KENAI	BERNICE LAKE	EXIST	0
4740	AK	KODIAK	KODIAK	KODIAK PLANT	EXIST	0
4240	WA	KING		UNSITED	PROP	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Nuclear Power Plants

Nuclear power plants, especially in the Atlantic Coast regions, are projected to fulfill a rather large percentage of the capacity requirements as shown in Figure 2. However, nuclear plants are subject to the high probability of regulatory permit and construction delays. If those plants are delayed or cancelled, the capacity will most probably be made up by coal, oil or natural gas fuels. In such a situation, the increase in substitute coal use would be largest in the Virginia-Carolinas area; the increase in substitute oil use would be largest in the New Jersey-Maryland area, and the Northern and Southern California areas. Natural gas would be utilized as a substitute almost exclusively in the Louisiana-Texas area (USDOE 1980b).

Table 9 shows existing, expanding, and proposed Nuclear Power Plants in the entire coastal zone.

Table 9. Nuclear power plants in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
17	ME LINCOLN		MAINE YANKEE	EXIST	0
390	CT MIDDLESEX		HADDAM NECK	EXIST	0
465	NY WESTCHESTER		INDIAN POINT	EXIST	0
750	NJ OCEAN		OYSTER CREEK	EXIST	0
1055	MD CALVERT		CALVERT CLIFFS	EXIST	0
1135	VA SURRY		SURRY	EXIST	0
1245	NC BRUNSWICK	SOUTHPORT	BRUNSWICK	EXIST	0
1620	FL DADE	FLORIDA CITY	TURKEY POINT	EXIST	0
1705	FL CITRUS		CRYSTAL RIVER	EXIST	0
3310	CA HUMBOLDT	EUREKA	HUMBOLDT BAY	EXIST	0
3895	OR COLUMBIA	RAINIER	TROJAN	EXIST	0
145	MA PLYMOUTH		PILGRIM	EXPAN	85
360	CT NEW LONDON	HARTFORD	MILLSTONE	EXPAN	86
830	NJ SALEM	DELAWARE RIVER	SALEM	EXPAN	83
1545	FL ST LUCIE	FORT PIERCE	ST LUCIE	EXPAN	83
3820	CA SAN DIEGO	SAN ONOFRE	SAN ONOFRE	EXPAN	81
37	NH ROCKINGHAM		SEABROOK	PROP	83
335	RI WASHINGTON	CHARLESTOWN	NEP 1/2	PROP	0
475	NY SUFFOLK		JAMESPORT	PROP	89
505	NY SUFFOLK		SHOREHAM	PROP	83
755	NJ OCEAN		FORKED RIVER(NUKE OR COAL)	PROP	86
835	NJ SALEM	DELAWARE RIVER	HOPE CREEK	PROP	84
880	DE NEW CASTLE	MIDDLETOWN	SUMMIT POWER	PROP	0
1005	MD BALTIMORE	UNSITED	UNSITED	PROP	86
2475	LA ST CHARLES	TAFT	WATERFORD	PROP	81
2925	TX MATAGORDA	BAY CITY	SOUTH TEXAS	PROP	84
3465	CA SN LUIS OBISPO		DIABLO CANYON	PROP	80
4195	WA SKAGIT	SEDRO WOOLEY	SKAGIT	PROP	87
4350	WA GRAYS HARBOR		SATSOP	PROP	84

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Coal-Fired Power Plants

A number of coal-fired power plants are proposed for construction near or on the coast. The proposed oil backout plan would provide billions of dollars to utilities to convert existing electric generating stations to coal. The program as it currently stands would be directed at conversion of 80 generating stations (U.S. DOE 1980b). In Table 10, listing coal-fired power plants for the entire coastal zone, the "expansion" category also includes the proposed conversions.

Development and marketing of coal-oil fuels are progressing with utility and industrial applications planned. One such application is planned for a Florida utility in St. Petersburg. Major uses of coal as fuel in coastal areas may require construction of coal slurry pipelines from the mines into the coastal zone areas. Construction of new coal-fired power plants, and slurry pipelines as well as conversion of existing oil- and gas-fired power plants to coal or coal-oil-mixture (COM) fired power plants have the potential to seriously degrade air and water quality in the coastal zone and to reduce available coastal habitats (U.S. DOE 1979d). These impacts result from the additional air pollutants from coal burning, additional water required in slurry operations, and additional on-site storage for coal to anticipate possible interruptions of supply.

Table 10. Coal-fired power plants in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
185	MA	BRISTOL	SOMERSET	BRAYTON POINT	EXIST	0
430	CT	NEW HAVEN	WALLINGFORD	PIERCE	EXIST	0
785	NJ	CAPE MAY	BASLEYS POINT	ENGLAND	EXIST	0
1070	MD	CHARLES	NEWBURG	MORGANTOWN	EXIST	0
1220	NC	NEW HANOVER	WILMINGTON	SUTTON	EXIST	0
1255	SC	HORRY		GRAINGER	EXIST	0
1310	SC	BERKELEY		JEFFERIES	EXIST	0
1335	SC	COLLETON		CANADYS	EXIST	0
1645	FL	ESCAMBIA		CRIST	EXIST	0
1680	FL	BAY		SMITH	EXIST	0
1860	AL	MOBILE		BARRY	EXIST	0
186	MA	BRISTOL	SOMERSET	BRAYTON POINT 3	EXPAN	82
496	NY	SUFFOLK	PORT JEFFERSON	PORT JEFFERSON 3/4	EXPAN	84
900	DE	SUSSEX	MILLSBORO	INDIAN RIVER	EXPAN	80
1075	MD	PRINCE GEORGES	AQUASCO	CHALK POINT	EXPAN	81
1265	SC	GEORGETOWN	GEORGETOWN	WINYAH	EXPAN	81
1710	FL	CITRUS		CRYSTAL RIVER	EXPAN	82
1745	FL	HILLSBOROUGH		BIG BEND	EXPAN	85
745	NJ	OCEAN	LITTLE EGG INLET	ATLANTIC	POST	0
13	ME	WALDO	SEARSPORT	SEARS ISLAND	PROP	89
566	NY	QUEENS	NYC	RAVENSWOOD 3	PROP	81
631	NY	RICHMOND	STATEN ISLAND	ARTHUR KILL 2/3	PROP	82
635	NY	RICHMOND		FOSSIL	PROP	89
825	NJ	SALEM		DEEPWATER	PROP	87
955	MD	DORCHESTER	VIENNA	VIENNA	PROP	87
1010	MD	BALTIMORE	UNSITED	UNSITED	PROP	87
1050	MD	ANN ARUNDEL	BALTIMORE	BRANDON SHORES	PROP	84
1325	SC	BERKELEY		CROSS	PROP	83
2040	MS	JACKSON	MOSS POINT	VICTOR J DANIEL	PROP	81
2130	LA	CALCASIEU		NELSON	PROP	82
2905	TX	VICTORIA	COLETO CREEK	COLETO CREEK	PROP	0
3165	TX	HARRIS	UNSITED	POWER PLANT	PROP	85
3335	CA	SOLANO	COLLINSVILLE	MONTEZUMA	PROP	0
3980	OR	LINCOLN		LINCOLN PUD	PROP	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Hydroelectric Facilities

Most of the hydroelectric power capacity in coastal counties is considered to be high head, i.e. more than 10 m. difference in upstream and downstream water levels. Most of this capacity is concentrated in Maine, Connecticut, Oregon, Washington and Alaska, as shown in Table 11, listing existing and expanding hydroelectric facilities, and in Table 12, listing proposed and postulated facilities for the whole coast.

The U.S. Army Corps of Engineers (COE) has published a National Hydroelectric Power Study in July 1979, inventorying all potential hydropower sites. However, hydropower is not expected to greatly increase in terms of its percentage share of total electrical generating capacity in the future (see Figure 2).

Low head hydroelectric facilities (from 3 to 10 m. difference in water levels) are projected to increase in number although the generating capacity per facility will be lower than that for high head facilities. In New England, DOE has identified some 1,800 potential sites for low head hydro projects, most of which are likely to be completed by private or municipal companies, if at all. There is also low head potential in some of the South Atlantic states. Low and high head potential exists in the West Coast and Alaska.

The Public Utilities Regulatory Policies Act of 1978 (PURPA) administered by the Federal Energy Regulatory Commission (FERC), is expected to encourage the development of small power production facilities, including small scale hydropower generation. The PURPA assures that facilities qualifying under the Act must be able to sell their power to utilities at a fair rate, based on the utility's "avoided cost" (the marginal cost to the utility of power produced by building additional power plants); This pricing policy was designed to remove some of the institutional barriers to small scale, private, electrical generating facilities.

DOE will be awarding funds for cooperative agreements to study technology to improve the economics of ultra-low-head hydropower (where the difference in upstream and downstream water levels is 3 m. or less). This study activity and the interest in putting electrical generators on existing dams indicate a trend toward greater utilization of hydropower resources.

While all hydro projects have the potential for affecting instream flow and fish migration, some areas cause more concern for coastal wetlands and estuaries. Some rivers with periods of low flow especially cause concern if dams upstream reduce freshwater inflow to valuable estuaries. This problem occurs more in the South with flat coastal plain topography.

Table 11. Existing and expanding hydroelectric facilities in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
6	ME WASHINGTON		UPPER RUMFORD FALLS	EXIST	0
7	ME WASHINGTON		LOWER RUMFORD FALLS	EXIST	0
9	ME HANCOCK		ELLSWORTH	EXIST	0
18	ME CUMBERLAND		BRUNSWICK	EXIST	0
20	ME CUMBERLAND		NORTH GORHAM	EXIST	0
26	ME YORK		BAR MILLS	EXIST	0
27	ME YORK		BONNY EAGLE	EXIST	0
28	ME YORK		CATARACT	EXIST	0
29	ME YORK		CONTINENTAL MILLS	EXIST	0
30	ME YORK		SKELTON	EXIST	0
31	ME YORK		WEST BUXTON	EXIST	0
305	RI PROVIDENCE	WOONSOCKET	PROVIDENCE	EXIST	0
340	CT NEW LONDON		GILMAN	EXIST	0
350	CT NEW LONDON		TAFTVILLE	EXIST	0
355	CT NEW LONDON		TUNNEL	EXIST	0
370	CT NEW LONDON	NORWICH	2ND STREET	EXIST	0
380	CT NEW LONDON	NORWICH	OCCUM	EXIST	0
385	CT NEW LONDON		10TH STREET	EXIST	0
415	CT NEW HAVEN		SHEPAUG	EXIST	0
445	CT FAIRFIELD		STEVENSON	EXIST	0
965	MD CECIL		CONOWINGO	EXIST	0
1170	NC WASHINGTON		WALTERS	EXIST	0
1315	SC BERKELEY		SPILLWAY	EXIST	0
1320	SC BERKELEY		ST STEPHEN	EXIST	0
1820	FL LEE		WOODRUFF	EXIST	0
3905	OR COLUMBIA		GREEN SPRINGS	EXIST	0
4005	OR LANE		LEABURG	EXIST	0
4015	OR LANE		WALTERVILLE	EXIST	0
4025	OR LANE		COUGAR	EXIST	0
4030	OR LANE		DEXTER	EXIST	0
4035	OR LANE		HILLS CREEK	EXIST	0
4040	OR LANE		LOOKOUT POINT	EXIST	0
4045	OR DOUGLAS		CLEARWATER 1/2	EXIST	0
4050	OR DOUGLAS		LEMOLO 1/2	EXIST	0
4055	OR DOUGLAS		SLIDE CREEK	EXIST	0
4060	OR DOUGLAS		SODA SPRINGS	EXIST	0
4065	OR DOUGLAS		TOKETEE	EXIST	0
4135	WA WHATCOM		NOOKSACK	EXIST	0
4140	WA WHATCOM	BAKER RIVER	UPPER BAKER	EXIST	0
4150	WA WHATCOM		GORGE	EXIST	0
4155	WA WHATCOM		DIABLO	EXIST	0
4160	WA WHATCOM		NEW HALEM	EXIST	0
4190	WA SKAGIT	BAKER RIVER	LOWER BAKER	EXIST	0
4215	WA KING		SNOQUALMIE	EXIST	0
4220	WA KING		ROSS DAM	EXIST	0
4225	WA KING		CEDAR FALLS	EXIST	0
4270	WA PIERCE		ELECTRON	EXIST	0
4275	WA PIERCE		WHITE RIVER	EXIST	0
4280	WA PIERCE		ALDER	EXIST	0
4285	WA PIERCE		LA GRANDE	EXIST	0
4290	WA THURSTON		CENTRALIA	EXIST	0
4295	WA MASON		CUSHMAN 1/2	EXIST	0
4340	WA JEFFERSON		WELLS	EXIST	0
4430	AK JUNEAU	JUNEAU	SNETTISHAM PLANT	EXIST	0
4565	AK SEWARD	SEWARD	COPPER LAKE	EXIST	0
4600	AK MATANUSKA	MATANUSKA	EKLUTNA	EXIST	0
4205	WA SNOHOMISH	SULTAN RIVER	CULMBACH DAM	EXPAN	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 12. Proposed and postulated hydroelectric facilities in the United States

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
16	ME LINCOLN		BRUNSWICK/TOPSHAM	PROP	81
33	ME INLAND		LOWHEAD HYDRO	PROP	0
41	MA ESSEX	LAWRENCE	LAWRENCE HYDRO	PROP	0
42	MA ESSEX	METHUEN	LOWELL ST. DAM	PROP	0
65	MA MIDDLESEX		LOWELL PAWTUCKET CANAL	PROP	0
150	MA PLYMOUTH		WINETUXENT RIVER DAM	PROP	0
155	MA PLYMOUTH	EARCHAM	TREMONT MILL POND DAM	PROP	0
235	MA INLAND		LOWHEAD HYDRO	PROP	0
1330	SC BERKELEY	ST STEPHEN	COOPER RIVER REDIVERSION	PROP	0
3300	CA DEL NORTE		MARYSVILLE	PROP	80
3330	CA SOLANO	WINTERS	MONTICELLO	PROP	0
3450	CA SN LUIS OBISPO		SAN LUIS OBISPO	PROP	82
3735	CA LOS ANGELES	UNSITED	SO CAL EDISON/HYDROPOWER	PROP	0
3810	CA ORANGE	YORBA LINDA	YORBA LINDA HYDRO	PROP	81
3975	OR TILLAMOOK	TRASK RIVER	HYDRO PROJECT	PROP	0
4105	OR COOS	COQUILLE RIVER	HYDRO PROJECT	PROP	0
4110	OR CURRY	ILLINOIS RIVER	HYDRO PROJECT	PROP	0
4165	WA WHATCOM	BELLINGHAM	ROSS DAM	PROP	0
4170	WA WHATCOM	NEW HALEM	COPPER CREEK DAM	PROP	0
4349	WA GRAYS HARBOR		WYNOOCHEE RIVER DAM	PROP	0
4400	AK PRINCE/WALES	KLAWOCK	BLACK BEAR LAKE	PROP	0
4405	AK KETCHIKAN	KETCHIKAN	SWAN LAKE	PROP	85
4410	AK WRANGELL-PTBG	WRANGELL	LAKE YYEE	PROP	0
4415	AK WRANGELL-PTBG	KAKE	GUNNUK CREEK	PROP	0
4420	AK SITKA	SITKA	GREEN LAKE	PROP	0
4425	AK ANGOON	ANGOON	THAYER CREEK	PROP	0
4435	AK HAINES	HAINES	LARSON BAY/OLD HARBOR	PROP	0
4440	AK HAINES	HAINES	CHILKAT RIVER	PROP	0
4515	AK CORDOVA	CORDOVA	POWER CREEK	PROP	0
4550	AK VALDEZ	VALDEZ	SOLOMON GULCH	PROP	0
4710	AK KENAI	HOMER	BRADLEY LAKE	PROP	0
4745	AK KODIAK	KODIAK	TERROR LAKE	PROP	84
4750	AK KODIAK	KODIAK	KODIAK A	PROP	81
4815	AK BRISTOL BAY	DILLINGHAM	LAKE ELVA	PROP	0
4880	AK BETHEL	BETHEL	KISARALIK RIVER	PROP	0
4560	AK SEWARD	SEWARD	SEWARD HYDRO SITE	POST	0
4585	AK ANCHORAGE	ANCHORAGE	EAGLE RIVER	POST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Miscellaneous Power Generation

The use of various unconventional technologies to generate electrical power is increasing, but is, as yet, small in scale. Table 13 lists these facilities.

The only commercial use of geothermal resources for power generation is the Pacific Gas and Electric Geysers facility in Sonoma County, California. There is ongoing research on technologies to use other types of geothermal resources for power generation, and should any of these prove promising, other resource areas as discussed in the geothermal section of this report may be developed.

Solid waste, refuse fuels and cogeneration facilities are increasing in number as a means to solve two problems at once: the disposal of wastes and the generation of power. These facilities are generally located in urbanized areas, and are operated or proposed by private or municipal companies.

a. Solar. Small scale installations for the utilization of solar energy, such as water or space heating on individual buildings, have become more popular in recent years, with the rising energy costs. There is little immediate environmental effect from the use of solar except as a reduction in impacts from the avoided use of traditional power generation technologies. Solar-electric installations are larger and with their necessary reliance on insolation, are generally located in areas of high insolation (see Figure 3). The only pilot facility of this type is the Barstow Solar-thermal Power Tower, which is not in the coastal zone. The major impact of such facilities is the reduction of habitat from the placement of the mirrors to collect solar energy.

Several pieces of legislation mandate DOE funding for research and development efforts in the area of solar power generation, and these efforts along with the PURPA pricing policies will encourage small scale solar facilities nationwide.

b. Wind. Windmills have long been used for pumping groundwater and small scale electrical generation. Coastal areas, especially those with frequent windy conditions, have been considered for larger scale wind-generated electrical facilities. Some areas of New England, Mid-Atlantic, Texas, Alaska and the West Coast have been suggested as possible sites for windmills (see Figure 4).

The Wind Energy Systems Commercialization and Utilization Act of 1980 sets up a commercialization program within DOE, and is expected to encourage the installation of wind systems. The PURPA also applies to small wind power generation and will also encourage wind systems.

Only a few windmill farms of a large scale are operating currently, including one in Block Island, Rhode Island. The Southern California proposal may include some smaller scale installations in the coastal zone, but a major facility was just dedicated inland, in the Palm Springs area. The major impacts of wind facilities are habitat use, depending on the size and number of windmills; and possibly noise or visual impacts.

c. Tidal Power. There are few places in the U.S. where the tidal differential is great enough to support tidal power generation: Maine, Washington and Alaska. It is only in those places that the tides, up to 20 feet or more, will provide enough of a head to power a turbine, as the technology is currently envisioned.

Table 13. Miscellaneous power generation technologies in the United States.

Cogeneration

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
3740	CA LOS ANGELES	UNSITED	SO CAL EDISON/FUEL CELLS-COGEN	PROP	0

Geothermal

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
3315	CA SONOMA		GEYSERS	EXPAN	82

Peat-fueled

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
1249	NC COASTAL ZONE		PEAT FUELED POWER PLANT	POST	0

Solar

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
3745	CA LOS ANGELES	UNSITED	SO CAL EDISON/SOLAR	PROP	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
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Table 13 continued.

Tidal

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
4605	AK MATANUSKA	KNIK ARM	TIDAL PROJECT	POST	0
4692	AK KENAI	COOK INLET	TIDAL PROPOSAL SOLICITATION	POST	0
32	ME ROCKY COAST	6 SITES	TIDAL POWER	PROP	0

Waste-fueled

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
310	RI PROVIDENCE	CRANSTON	SOLID WASTE/COGENERATION	EXIST	0
550	NY NASSAU	GLENWOOD	GLENWOOD	EXIST	0
555	NY NASSAU		MITCHELL GARDENS	EXIST	0
1605	FL DADE	HIALEAH	RESOURCE RECOVERY INC	EXIST	0
740	NJ OCEAN	DOVER TOWNSHIP	SOLID WASTE	PROP	0

Wind

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
270	RI NEWPORT	BLOCK ISLAND	WIND TURBINE	EXIST	0
730	NJ MONMOUTH	SANDY HOOK	WIND POWER	PROP	0
3750	CA LOS ANGELES	UNSITED	SO CAL EDISON/WINDMILLS	PROP	80

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[b] Exist = an existing facility
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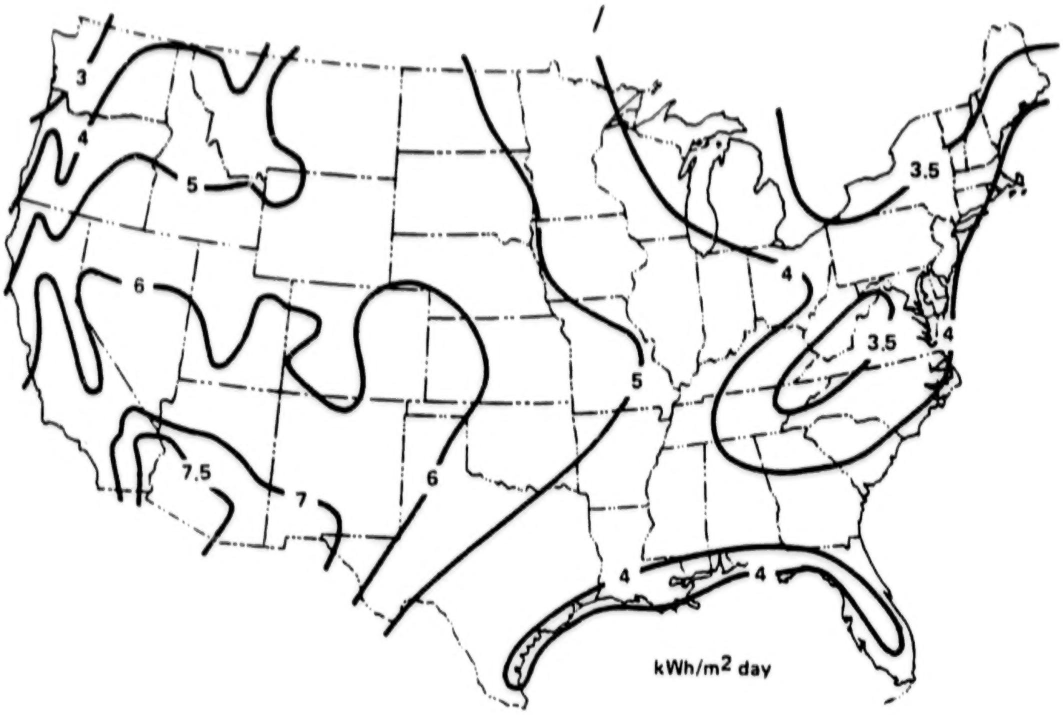
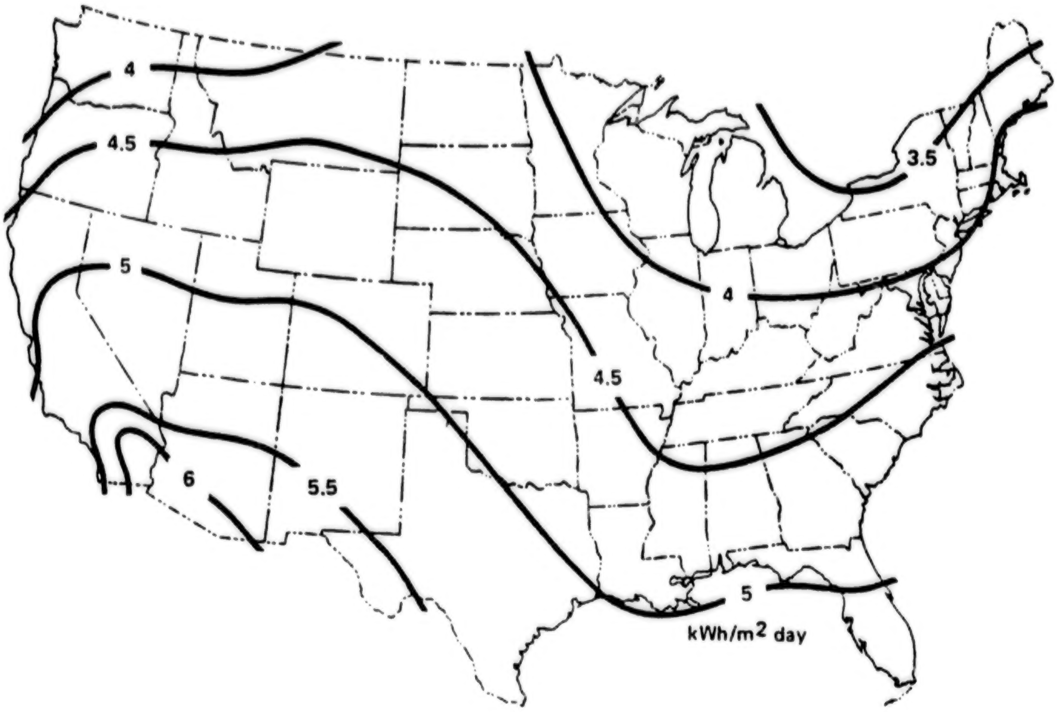


Average Annual Solar Radiation: Direct Normal Component



Average Annual Solar Radiation: Total Horizontal Component

Figure 3. Solar radiation levels in the United States.
(Federal Energy Regulatory Commission, 1980b)

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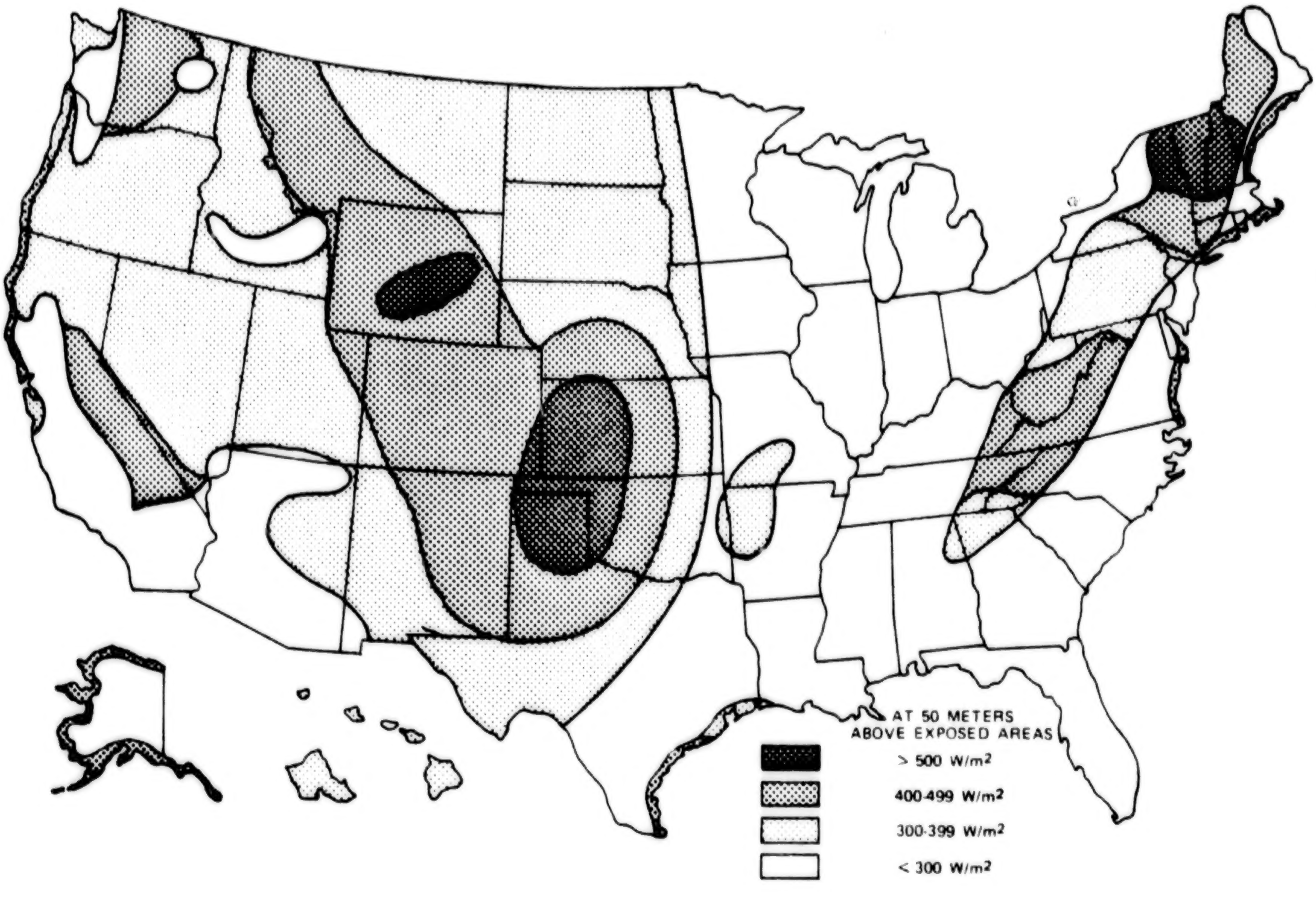

Figure 4. Wind energy potential in the United States.
(Federal Energy Regulatory Commission, 1980b)

A proposal for a facility near Anchorage on the Knik Arm of the Cook Inlet, was studied and dropped. However, the state of Alaska has recently solicited proposals for tidal power in Cook Inlet (Anonymous, 1980f). There are continuing studies by the Corps of Engineers in the rocky coast area of Maine. Out of about six sites being studied, the Corps hopes to choose one and begin planning for a pilot facility.

Tidal power plants may have extensive impacts on marine near shore environments, and there are already fears that the Canadian facility in the Bay of Fundy may be having impacts down the Maine coast. These impacts are in the nature of disruption of current flows and fish migration patterns.

d. Ocean Thermal Energy Conversion (OTEC). OTEC is a form of solar energy that takes advantage of the vertical temperature differentials in those areas of the oceans generally between 20° N latitude and 20° S latitude. In a technologically advanced OTEC system, warm surface water is used to vaporize a working fluid and the vapor is fed through a turbo-generator to produce electrical energy. The vapor leaving the turbine is cooled by cold water pumped up from the deep ocean through a long tube.

The Department of Energy is sponsoring an OTEC research program off the coast of Hawaii that features a large floating test facility. The aim of this program is to advance OTEC technology and pave the way for the eventual commercial development of OTEC facilities. Two basic OTEC designs are most often discussed: a floating offshore OTEC plant with cables to shore for transmission of electrical energy; or an onshore plant with pipes offshore to collect cooling water. The thermal differentials required by OTEC will restrict first generation facilities to waters offshore of Hawaii and Puerto Rico. Locations off of the Florida coast may be feasible with second or third generation OTEC plant designs.

The large volumes of cold ocean water brought to the surface by OTEC plants for cooling would be released into the surface environment. Besides having an effect on surface water temperature gradients, the deep water carries with it an abundance of rich nutrients that would be released at the surface. The natural upwellings of cold water that supply nutrients to many of the world's fisheries are localized phenomena and little is known of the effects of man-made upwellings. Also, the addition of large amounts of cold water would change the salinity of surface water since colder water is richer in salts such as nitrates and phosphates. Ocean bottom disturbance would result from the placement of cables and pipelines and onshore habitats would be disrupted at cable or pipeline landfalls and plant sites.

Other Potential Energy Technologies

A number of innovative power generation systems are currently in various stages of development. Among the more prominent systems are fuel cells, magnetohydrodynamic (MHD) generators, and oceanic wave-powered generating stations. None of these technologies has advanced to the point where widespread commercial-scale siting is being planned and thus facility sites for these development types were not represented on the facility siting maps.

Fuel cells are direct electrochemical conversion devices for generating electricity that have performed reliably in the space program and are nearing commercial utilization. Two demonstrator programs are underway: one consisting of a 4.8 MW unit in New York City, and the second consisting of fifty 40-kW units in various locations across the country. Besides its higher energy efficiency, one of the major advantages of the fuel cell is its environmental cleanliness. Large commercial units may be teamed with coal gasifiers, however, and thus may become a source of environmental degradation.

The MHD generator resembles a rocket engine surrounded by an enormous magnet. Hot gases produced in a burner are seeded with an ionized alkali metal and passed through a generator which is surrounded by powerful superconducting magnets. The movement of the electrically conductive ionized gas generates sufficient electrical current within the electromagnetic field that it can be transmitted by electrodes to an external load circuit as DC electricity. The MHD development program is composed of three phases: component design and testing, demonstrator operation, and commercial-scale operation. The program is currently in the component design phase and utilizes numerous facilities at various locations in 15 states. Environmentally, MHD offers advantages over conventional systems because sulfur and NO_x emissions are reduced and increased efficiency reduces the need for cooling water. The magnetic field produced by the process may have an effect on surrounding fish and wildlife.

The harnessing of wave energy for generating electricity aboard floating offshore power stations is in the conceptual design phase. Such units would allow wave crests to enter a hollow core where the falling water would turn turbines producing electricity. Transmission cables would probably connect the units to shore.

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OIL AND GAS PRODUCTION

Onshore Oil and Gas Production

Most of the easy onshore oil and gas provinces have been tapped, and in most cases, production in those areas is on the decline. Secondary and tertiary recovery methods are in use or are planned in order to increase production. The areas of coastal onshore oil and gas production are in the Gulf Coast, West Coast and Alaska areas, as indicated in Table 14. Several new areas are proposed for leasing by the state of Alaska.

Alaska is a pristine area where prospects for large oil and gas finds are high, as are the environmental impacts of drilling and production. In the Gulf Coast, especially in Louisiana, hardly a vista exists that does not include some impact from oil and gas production, such as canals cut to transport equipment, pipelines and wells themselves.

Table 14. Onshore oil and gas wells and production areas in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
1665	FL SANTA ROSA		ONSHORE OIL/GAS EXPLORATION	EXIST	0
1825	FL LEE	LEHIGH FIELD	OIL/GAS PRODUCTION	EXIST	0
1850	FL GULF COAST	COASTAL AREA	143 OIL WELLS	EXIST	0
1930	AL MOBILE	CHUNCHULA	CHUNCHULA FIELD	EXIST	0
1970	AL MOBILE	ONSHORE	608 OIL WELLS	EXIST	0
2080	MS COASTAL ZONE	COASTAL AREA	2,237 OIL WELLS	EXIST	0
2650	LA COASTAL ZONE		12,535 OIL WELLS	EXIST	0
3270	TX GULF COAST	ONSHORE COASTAL ZONE	14,108 WELLS	EXIST	0
3560	CA SANTA BARBARA	GUADALUPE DUNES	OIL/GAS PRODUCTION	EXIST	0
3570	CA SANTA BARBARA	GAVIOTA	OIL/GAS PRODUCTION	EXIST	0
3730	CA LOS ANGELES	VARIOUS	ONSHORE OIL/GAS PRODUCTION	EXIST	0
3800	CA ORANGE	HUNTINGTON BEACH	ONSHORE OIL/GAS PRODUCTION	EXIST	0
3935	OR COLUMBIA	MIST	GAS EXPLORATION/PRODUCTION	EXIST	0
4355	WA GRAYS HARBOR	OCEAN CITY	OIL/GAS PRODUCTION	EXIST	0
4685	AK KENAI	KENAI	ONSHORE PRODUCTION	EXIST	0
4690	AK KENAI	DRIFT RIVER	ONSHORE GAS PRODUCTION	EXIST	0
5010	AK BARROW	PRUDHOE BAY	ONSHORE OIL/GAS PRODUCTION	EXIST	0
3960	OR CLATSOP	VARIOUS	ONSHORE O/G EXPLORATION	PROP	0
4505	AK CORDOVA	COPPER RIVER BASIN	ONSHORE STATE LEASE	PROP	82
4625	AK MATANUSKA	COOK INLET/SUSITNA	ONSHORE STATE LEASES	PROP	0
4810	AK BRISTOL BAY	BRISTOL BAY	ONSHORE STATE LEASE	PROP	82
4890	AK NOME	NORTON SOUND	ONSHORE STATE LEASE	PROP	81
5000	AK BARROW	PRUDHOE BAY	ONSHORE STATE LEASE	PROP	81
5005	AK BARROW	ARCTIC SLOPE	ONSHORE STATE LEASE	PROP	81

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Outer Continental Shelf (OCS)

OCS oil production will continue to grow in importance as production from onshore oil fields in the lower 48 states continues to decline. The attractiveness of the OCS is the possibility that it may yield oil in large accumulations that can be translated more rapidly into large oil production than the picked over onshore oil provinces.

Actual OCS oil and gas production is currently limited to the western central Gulf of Mexico and the Southern California area, as indicated in Table 15. Exploration activities are being conducted along the Atlantic and Southern California coasts as well as in the Gulf of Mexico and the Gulf of Alaska. The Secretary of the Interior has recently issued the OCS leasing schedule for the period from 1980 through early 1985. This schedule consists of 30 OCS oil and gas lease sales. Sales are scheduled in the North Atlantic; Mid-Atlantic; South Atlantic, including Blake Plateau; Southern California; including the Santa Barbara Channel; Gulf of Alaska; Cook Inlet and the Beaufort Sea; all areas where previous oil and gas sales have been held. Sales are also scheduled in the "frontier" areas of Central and Northern California; Kodiak; Northern Aleutian Shelf; St. George Basin; Navarin Basin; Norton Basin; and the Chukchi Sea; all are areas where no previous OCS oil and gas lease sales have been held, or in the case of Central and Northern California, no recent sale has been held, and no development has taken place. Table 16 shows areas where leasing and exploration are ongoing or proposed, in the entire coastal zone.

Current or near term exploratory activities in the Atlantic are centered around Georges Bank, Baltimore Canyon, and the Southeast Georgia Embayment. The Georges Bank area is 60 to 160 miles southeast of Cape Cod and seismic surveys have shown favorable possibilities. The first exploratory well is unlikely to be drilled in the Georges Bank until 1981. Drilling is continuing in the vicinity of the 1978 gas discovery in the Baltimore Canyon off the coast of New Jersey. This drilling will determine whether a sufficient gas reserve is present to justify construction of producing facilities and a pipeline to shore. Seventeen dry holes have dimmed optimism in the Baltimore Canyon area however. Discouraging results of six wells drilled in the Southeast Georgia Embayment off Brunswick, Ga., and Jacksonville, Fla., have resulted in cessation of activity there. It is believed that better prospects will be found farther offshore and at greater water depths beneath the Blake Plateau, because of the geological formations in that area.

Exploratory activities are continuing in most production areas of the western Gulf of Mexico; however, the future trend is towards exploration in deeper water near the shelf's edge and towards the eastern Gulf off the coast of Florida. Prospects for major discoveries in the eastern Gulf are as yet uncertain; however, the geologic structure makes it a likely environment in which there is some interest in drilling.

Production is scheduled to start in early 1981 from several new fields in the Santa Barbara Channel. In other recent leases off the coast of Southern California, high interest was shown in tracts west of Point Conception while little interest was shown in bidding for tracts in the Outer Banks west of San Diego.

Optimism is high for major discoveries in the Beaufort Sea as reflected by the heavy level of bidding in a recent OCS lease sale. Drilling in the offshore basins of southern Alaska has so far been successful only in Upper Cook Inlet. Ten dry holes have been drilled in the Gulf of Alaska and eight in Lower Cook Inlet. There remain many large

Table 15. Offshore oil and gas platforms and production areas in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
2655	LA OCS	CENTRAL GULF	OCS PRODUCTION/EXPLORATION	EXIST	0
3255	TX OCS	WESTERN GULF	OCS PRODUCTION	EXIST	0
3510	CA SANTA BARBARA	SANTA BARBARA CHANNL	OCS PRODUCTION	EXIST	0
3595	CA VENTURA	SANTA BARBARA CHANNL	OIL/GAS PRODUCTION	EXIST	0
3720	CA LOS ANGELES	LONG BEACH	OFFSHORE OIL/GAS PRODUCTION	EXIST	0
3805	CA ORANGE	HUNTINGTON BEACH	OFFSHORE O/G PRODUCTION	EXIST	0
4650	AK KENAI	COOK INLET/STATE	14 O/G PLATFORMS	EXIST	0
1955	AL MOBILE	MOBILE HARBOR	OFFSHORE OIL FIND	PROP	0

Table 16. Offshore oil and gas exploration areas/OCS leasing areas in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
240	MA OCS	NO ATLANTIC	SALE 42	EXIST	0
840	NJ OCS	MID-ATLANTIC	SALES 40/49	EXIST	0
1445	GA OCS	SO ATLANTIC	OCS LEASE SALE 43	EXIST	0
1960	AL OCS	GULF OCS	ACTIVE OCS LEASE AREA	EXIST	0
1975	AL MOBILE	STATE WATERS	STATE LEASES	EXIST	0
245	MA OCS	NO ATLANTIC	SALE 52	PROP	82
845	NJ OCS	MID-ATLANTIC	SALE 59	PROP	81
1250	NC OCS	SOUTH ATLANTIC	OCS LEASE SALE 56	PROP	81
1370	SC OCS	SOUTH ATLANTIC	OCS SALE 56	PROP	81
1450	GA OCS	SO ATLANTIC	OCS LEASE SALE 56	PROP	81
1855	FL OCS	EASTERN GULF	OCS SALE 66	PROP	0
1965	AL OCS	GULF OCS	LEASE SALE 66	PROP	81
2085	MS OCS	CENTRAL GULF	OCS EXPLORATION	PROP	80
3260	TX OCS	WESTERN GULF	OCS LEASE SALE 62	PROP	80
3515	CA SANTA BARBARA	OCS	OCS LEASE SALE 53	PROP	81
3520	CA SANTA BARBARA	SANTA BARBARA CHANNL	OCS LEASE SALE 68	PROP	83
3600	CA VENTURA	SANTA BARBARA CHANNL	OCS LEASE SALE 68	PROP	83
3725	CA LOS ANGELES	LONG BEACH	OCS LEASE SALE 68	PROP	83
3965	OR CLATSOP	COLUMBIA RIVER MOUTH	OFFSHORE O/G EXPL-STATE WATERS	PROP	0
4075	OR DOUGLAS	STATE WATERS	CHEVRON EXPLORATION	PROP	0
4100	OR COOS	COOS BAY	STATE LEASE	PROP	0
4450	AK SKAGWY-YAKUTAT	YAKUTAT SHELF	OCS LEASE	PROP	0
4475	AK CORDOVA	YAKATAGA SHELF	OCS LEASE	PROP	0
4480	AK CORDOVA	MIDDLETON SHELF	OCS LEASE	PROP	0
4620	AK MATANUSKA	UPPER COOK INLET	OFFSHORE STATE LEASE	PROP	0
4715	AK KENAI	LOWER COOK INLET	STATE OFFSHORE LEASE	PROP	80
4720	AK KENAI	COOK INLET-SHELIKOFF	OCS LEASE	PROP	81
4820	AK ALEUTIAN IS	NO ALEUTIAN SHELF	OCS LEASE	PROP	83
4825	AK ALEUTIAN IS	ST GEORGE BASIN	OCS LEASE	PROP	82
4875	AK BETHEL	NAVARIN BASIN	OCS LEASE	PROP	84
4885	AK NOME	NORTON BASIN	OCS LEASE	PROP	82
4895	AK NOME	NORTON SOUND	OFFSHORE STATE LEASE	PROP	82
4955	AK KOBUK	HOPE BASIN	OCS LEASE	PROP	0
4980	AK BARROW	CHUKCHI BASIN	OCS LEASE	PROP	85
4985	AK BARROW	BEAUFORT BASIN	OCS LEASE	PROP	80
4990	AK BARROW	BEAUFORT	OFFSHORE STATE LEASE	PROP	80
4995	AK BARROW	CHUKCHI	OFFSHORE STATE LEASE	PROP	83

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

untested offshore basins in the Bering and Chukchi Seas, the Kodiak Shelf and the eastern Gulf of Alaska. Some of these are believed to be very promising on the basis of reconnaissance seismic surveys.

In addition to federal OCS oil development activities, many coastal states are conducting or developing their own tidewater leasing programs. Louisiana, Texas, California, and Alaska already have major oil and gas production from tidewater areas. Development impacts on coastal and onshore resources from these state programs will be cumulative with the impacts from OCS development.

The potential for accidental release of oil into the marine environment represents one of the most critical ecological problems of OCS development. Whatever the long term effects on the marine environment may be, the short term damage from a large spill is undeniably severe. Perhaps equally severe from an ecological viewpoint is the development of onshore areas for storage, processing, transportation, and support facilities. Various stages of OCS development have differing levels of onshore impact.

The exploratory drilling phase usually requires the largest number of non-resident employees because of the temporary and specialized nature of the work. This may lead to a "boom and bust" cycle in some communities and bring with it all the concomitant disturbances associated with this type of rapid development where little or no prior planning has been done to ensure orderly growth patterns. This is a major concern chiefly in frontier areas. On the other hand, areas like the Gulf and Southern California where the service and support industries are well established, have little concern over boom and bust problems. Tables 17 and 18 show the extent of the Service Industry in the nation, existing and proposed, which includes shipyards, transportation and food service type industries.

Other OCS-related support industries are shown on Table 19. These industries are more directly dependent on OCS oil and gas activvities, and include platform fabrication, drilling companies, and pipelaying companies. Platform construction for frontier areas is likely to take place in existing construction facilities. At some point the volume of work may increase to the extent that locating a platform construction yard in the area of offshore activity may become profitable. Construction yards are major industrial developments with significant impact on coastal zone development. Onshore separation and treatment facilities, and where needed tank farms, will be constructed during the production and development phase, along with infrastructural projects and additions to public facilities for the growing population. Table 20 lists existing and proposed separation and treatment facilities in the coastal zone. Activities of support industries will also increase dramatically during development.

Once platforms have been installed and production of oil and gas commences, construction activity will drop considerably. Expansion of onshore facilities and the public infrastructure should only be required by major expansions in offshore production, of which, outside of Alaska, none is currently expected.

Table 17. Existing service bases and oil support industry in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
165	MA	BARNSTABLE	BARNSTABLE AIRPT	CREW CHANGE	EXIST	0
320	RI	KENT	QUONSETT-DAVISVILLE	40-60 OCS SERVICE INDUSTRIES	EXIST	0
775	NJ	ATLANTIC	ATLANTIC CITY	PETROLEUM HELICOPTERS	EXIST	0
1410	GA	CHATHAM	SAVANNAH	TENNECO	EXIST	0
1425	GA	GLYNN	BRUNSWICK	GETTY OIL	EXIST	0
1430	GA	GLYNN	BRUNSWICK	TRANSCO	EXIST	0
1435	GA	GLYNN	ST SIMONS ISLAND	AIRPORT/OCS SUPPORT	EXIST	0
1485	FL	DUVAL	JACKSONVILLE	3 OCS SERVICE INDUSTRIES	EXIST	0
1565	FL	PALM BEACH	VARIOUS	2 OCS SERVICE INDUSTRIES	EXIST	0
1600	FL	BROWARD	VARIOUS	2 OCS SERVICE INDUSTRIES	EXIST	0
1640	FL	DADE		2 OCS SERVICE INDUSTRIES	EXIST	0
1945	AL	MOBILE	MOBILE	2 OCS SERVICE INDUSTRIES	EXIST	0
1995	MS	HANCOCK	BAY ST LOUIS	OCS SERVICE BASE	EXIST	0
2070	MS	JACKSON	MOSS POINT	2 OCS SERVICE INDUSTRIES	EXIST	0
2150	LA	CALCASIEU	VARIOUS	2 OCS SERVICE FAC	EXIST	0
2155	LA	CAMERON	CAMERON	GETTY SUPPORT BASE	EXIST	0
2165	LA	CAMERON	GRAND CHENIER	SERVICE	EXIST	0
2225	LA	VERMILLION		4 OCS SERVICE INDUSTRIES	EXIST	0
2230	LA	VERMILLION	INTRACOASTAL CITY	SERVICE BASE	EXIST	0
2245	LA	IBERIA	VARIOUS	5 OCS SERVICE BASES	EXIST	0
2260	LA	ST MARY	MORGAN CITY	SERVICE BASE	EXIST	0
2265	LA	ST MARY	VARIOUS	30 OCS SERVICE IND	EXIST	0
2310	LA	TERREBONNE	HOUMA	SERVICE BASE	EXIST	0
2315	LA	TERREBONNE	VARIOUS	8 OCS SERVICE IND	EXIST	0
2355	LA	TERREBONNE	DULAC	SERVICE BASE	EXIST	0
2365	LA	LAFOURCHE	LEEVILLE	SERVICE BASE	EXIST	0
2375	LA	LAFOURCHE	GOLDEN MEADOW	SERVICE BASE	EXIST	0
2380	LA	LAFOURCHE	VARIOUS	OCS SERVICE IND	EXIST	0
2485	LA	JEFFERSON	GRAND ISLE	SERVICE BASE	EXIST	0
2490	LA	JEFFERSON	VARIOUS	23 OCS SERVICE IND	EXIST	0
2515	LA	JEFFERSON	HARVEY	SERVICE BASE	EXIST	0
2550	LA	PLAQUEMINES	VARIOUS	2 OCS SERVICE IND	EXIST	0
2555	LA	PLAQUEMINES	VENICE	SERVICE BASE	EXIST	0
2625	LA	ORLEANS	VARIOUS	41 OCS SERVICE IND	EXIST	0
2680	TX	CAMERON	PORT ISABEL	OCS SERVICE IND	EXIST	0
2710	TX	WILLACY	PORT MANSFIELD	SERVICE BASE	EXIST	0
2760	TX	NUECES	PORT ARANSAS	2 OCS SERVICE INDUSTRIES	EXIST	0
2770	TX	NUECES	CORPUS CHRISTI	2 OCS SERVICE INDUSTRIES	EXIST	0
2820	TX	SAN PATRICIO	INGLESIDE	SERVICE BASE	EXIST	0
2860	TX	ARANSAS	ROCKPORT	SERVICE BASE	EXIST	0
2890	TX	CALHOUN	PORT OCONNOR	SERVICE BASE	EXIST	0
2945	TX	BRAZORIA	FREEPORT	SERVICE BASE	EXIST	0
3015	TX	BRAZORIA	PEERLAND	OCS SERVICE IND	EXIST	0
3075	TX	GALVESTON	GALVESTON	5 OCS SERVICE INDUSTRIES	EXIST	0
3145	TX	HARRIS	HOUSTON	85 OCS SERVICE INDUSTRIES	EXIST	0
3150	TX	HARRIS	CHANNELVIEW	2 OCS SERVICE INDUSTRIES	EXIST	0
3210	TX	JEFFERSON	PORT ARTHUR	OCS SERVICE INDUSTRIES	EXIST	0
3225	TX	JEFFERSON	GROVES	OCS SERVICE IND	EXIST	0
3245	TX	JEFFERSON	SABINE PASS	SERVICE BASE	EXIST	0
3860	OR	MULTNOMAH	PORTLAND	OILTANKER DRYDOCKS	EXIST	0
4680	AK	KENAI	NIKISKI	SERVICE BASE	EXIST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 18. Proposed and postulated service bases and oil support industry in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
225	MA BRISTOL	NEW BEDFORD	G/G EXPLORATION BASE	PROP	0
1190	NC CARTERET	MOREHEAD CITY	OCS SUPPORT	PROP	0
1215	NC NEW HANOVER		OCS SUPPORT	PROP	0
1240	NC BRUNSWICK	SOUTHPORT	OCS SUPPORT	PROP	0
1275	SC GEORGETOWN	GEORGETOWN	OCS SUPPORT	PROP	0
1305	SC CHARLESTON	CHARLESTON	OCS SUPPORT	PROP	0
1685	FL BAY	PANAMA CITY	OCS SUPPORT	PROP	0
1775	FL MANATEE	PORT MANATEE	OCS SERVICE BASE	PROP	0
1795	FL CHARLOTTE	BOCA GRANDE	OCS SERVICE BASE	PROP	0
1940	AL MOBILE	MOBILE	OCS SUPPORT	PROP	0
2015	MS HARRISON	PASS CHRISTIAN	OCS SERVICE BASE	PROP	0
2020	MS HARRISON	GULFPORT	OCS SERVICE BASE	PROP	0
2065	MS JACKSON	BILOXI	OCS SERVICE BASE	PROP	0
445	AK SKAGWY-YAKUTAT	SKAGWAY	ALCAN PIPELINE	PROP	0
915	DE SUSSEX	LEWES	OCS SUPPORT	POST	0
1355	SC BEAUFORT		OCS SUPPORT	POST	0
4455	AK SKAGWY-YAKUTAT	YAKUTAT	SERVICE BASE	POST	0
4485	AK CORDOVA	ICY BAY	SERVICE BASE	POST	0
4495	AK CORDOVA	KAYAK ISLAND	SERVICE BASE	POST	0
4510	AK CORDOVA	CORDOVA	SERVICE BASE	POST	0
4555	AK SEWARD	SEWARD	SERVICE BASE	POST	0
4725	AK KENAI	HOMER	SERVICE BASE	POST	0
4755	AK KODIAK	AFOGNAK IS/WEST	SERVICE BASE	POST	0
4765	AK KODIAK	AFOGNAK IS/EAST	SERVICE BASE	POST	0
4785	AK KODIAK	UGAK BAY	SERVICE BASE	POST	0
4805	AK KODIAK	OLD HARBOR	SERVICE BASE	POST	0
4830	AK ALEUTIAN IS	COLD BAY	SERVICE BASE	POST	0
4870	AK ALEUTIAN IS	UNALASKA	SERVICE BASE	POST	0
4905	AK NOME	PASTOL BAY	SERVICE BASE	POST	0
4920	AK NOME	ST MICHAELS BAY	SERVICE BASE	POST	0
4935	AK NOME	NOME	SERVICE BASE	POST	0
4960	AK KOBUK	KOTZEBUE SOUND	SERVICE BASE	POST	0
5020	AK BARROW	SMITH BAY	SERVICE BASE	POST	0
5025	AK BARROW	CAPE HALKETT	SERVICE BASE	POST	0
5035	AK BARROW	JONES ISLAND	SERVICE BASE	POST	0
5045	AK BARROW	PRUDHOE BAY	SERVICE BASE	POST	0
5055	AK BARROW	CAMDEN-CANNING	SERVICE BASE	POST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 19. OCS-related industries in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
1740	FL	HILLSBOROUGH	TAMPA	BADGER PIPE/OCS SUPPORT	EXIST	0
1910	AL	MOBILE	MOBILE	OCS SUPPORT	EXIST	0
1990	MS	HANCOCK	PEARLINGTON	FABRICATION YARDS	EXIST	0
2025	MS	HARRISON	GULFPORT	FABRICATION YARDS	EXIST	0
2075	MS	JACKSON	PASCAGOULA	INGALLS SHIPBLDG FAB	EXIST	0
2170	LA	CAMERON		OCS SUPPORT	EXIST	0
2255	LA	ST MARY	VARIOUS	11 OCS SUPPORT IND	EXIST	0
2280	LA	ST MARY	ATCHAFALAYA RIVER	OCS SUPPORT IND	EXIST	0
2350	LA	TERREBONNE	VARIOUS	4 OCS SUPPORT IND	EXIST	0
2370	LA	LAFOURCHE	THIBODAUX	BAY DRILLING CO	EXIST	0
2500	LA	JEFFERSON	VARIOUS	12 OCS SUPPORT IND	EXIST	0
2565	LA	PLAQUEMINES	VARIOUS	2 OCS SUPPORT IND	EXIST	0
2630	LA	ORLEANS	VARIOUS	12 OCS SUPPORT IND	EXIST	0
2700	TX	CAMERON	BROWNSVILLE	MARATHON/OCS SUPPORT	EXIST	0
2765	TX	NUECES	CORPUS CHRISTI	4 OCS SUPPORT INDUSTRIES	EXIST	0
2955	TX	BRAZORIA	FREEPORT	DRILLING,PIPELAYING/OCS SUPP	EXIST	0
3010	TX	BRAZORIA	LAKE JACKSON	OCS SUPPORT IND	EXIST	0
3080	TX	GALVESTON	GALVESTON	4 OCS SUPPORT INDUSTRIES	EXIST	0
3140	TX	HARRIS	HOUSTON	63 OCS SUPPORT INDUSTRIES	EXIST	0
3235	TX	JEFFERSON	NEDERLAND	OCS SUPPORT IND	EXIST	0
3320	CA	SOLANO	VALLEJO	KAISER STEEL PLATFORM FAB	EXIST	0
3325	CA	SOLANO	VALLEJO	PETER KIEWITT/OCS SUPP	EXIST	0
325	RI	KENT	QUONSETT-DAVISVILLE	PLATFORM FABRICATION	POST	0
1905	AL	MOBILE		KAISER FABRICATORS	PROP	0
3945	OR	CLATSOP	WARRENTON	BROWN/ROOT PLATFORM FAB	PROP	0
4115	WA	WHATCOM	CHERRY POINT	PLATFORM FABRICATION	PROP	0
4345	WA	GRAYS HARBOR	GRAYS HARBOR	FABRICATION YARD	PROP	0

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[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 20. Oil and gas separation and processing facilities in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
1670	FL	SANTA ROSA	JAY	EXXON GAS PLANT	EXIST	0
1895	AL	MOBILE	CITRONELLE	CITIES SERVICE GAS PLANT	EXIST	0
1900	AL	MOBILE	HATTERS POND	GETTY GAS PLANT	EXIST	0
2110	LA	CALCASIEU	VARIOUS	6 GAS PROCESSING PLANTS	EXIST	0
2185	LA	CAMERON		9 GAS PROCESSING PLANTS	EXIST	0
2195	LA	VERMILLION	ERATH	SEA ROBIN 3	EXIST	0
2220	LA	VERMILLION		10 GAS PROCESSING PLANTS	EXIST	0
2240	LA	IBERIA	VARIOUS	3 GAS PROCESSING PLANTS	EXIST	0
2300	LA	ST MARY	VARIOUS	10 GAS PROCESSING PLANTS	EXIST	0
2345	LA	TERREBONNE	VARIOUS	11 GAS PROCESSING PLANTS	EXIST	0
2410	LA	LAFOURCHE		LIQUID PRODUCTS GAS PLANT	EXIST	0
2445	LA	ST JAMES	VARIOUS	2 GAS PROCESSING PLANTS	EXIST	0
2480	LA	ST CHARLES	VARIOUS	3 GAS PROCESSING PLANTS	EXIST	0
2545	LA	PLAQUEMINES	VARIOUS	4 GAS PROCESSING PLANTS	EXIST	0
2585	LA	ST BERNARD	VARIOUS	4 GAS PROCESSING PLANTS	EXIST	0
2720	TX	WILLACY	RAYMONDVILLE	MITCHELL GAS PROCESSING	EXIST	0
2735	TX	KLEBERG	VARIOUS	2 GAS PROCESSING PLANTS	EXIST	0
2815	TX	NUECES	VARIOUS	6 GAS PROCESSING PLANTS	EXIST	0
2845	TX	SAN PATRICIO	VARIOUS	7 GAS PROCESSING PLANTS	EXIST	0
2850	TX	REFUGIO	VARIOUS	4 GAS PROCESSING PLANTS	EXIST	0
2855	TX	ARANSAS	FULTON	TENNECO GAS PROCESSING PLANT	EXIST	0
2885	TX	CALHOUN	VARIOUS	2 GAS PROCESSING PLANTS	EXIST	0
2920	TX	VICTORIA	VARIOUS	2 GAS PROCESSING PLANTS	EXIST	0
2930	TX	MATAGORDA	VARIOUS	5 GAS PROCESSING PLANTS	EXIST	0
3005	TX	BRAZORIA	VARIOUS	5 GAS PROCESSING PLANTS	EXIST	0
3090	TX	GALVESTON	GALVESTON	MITCHELL GAS PROCESSING PLANT	EXIST	0
3135	TX	HARRIS	VARIOUS	6 GAS PROCESSING PLANTS	EXIST	0
3180	TX	CHAMBERS		3 GAS PROCESSING PLANTS	EXIST	0
3230	TX	JEFFERSON	VARIOUS	4 GAS PROCESSING PLANTS	EXIST	0
3545	CA	SANTA BARBARA	VARIOUS	11 GAS TREATMENT PLANTS	EXIST	0
3625	CA	VENTURA	VARIOUS	11 TREATMENT PLANTS	EXIST	0
3700	CA	LOS ANGELES	VARIOUS	9 TREATMENT PLANTS	EXIST	0
3795	CA	ORANGE	VARIOUS	7 TREATMENT PLANTS	EXIST	0
4635	AK	KENAI	TRADING BAY	PRODUCTION FACILITIES	EXIST	0
4640	AK	KENAI	TYONEK	ARCO-TEXACO PROD FACILITES	EXIST	0
1660	FL	ESCAMBIA	PENSACOLA	GAS PROCESSING PLANT	PROP	0
1950	AL	MOBILE	MOBILE	GAS PROCESSING	PROP	0
2985	TX	BRAZORIA	SWEENEY	NG PROCESSING	PROP	0
3550	CA	SANTA BARBARA	LAS FLORES CYN	TREATMENT FACILITY	PROP	0
3630	CA	VENTURA	MANDALAY BEACH	2 TREATMENT PLANTS	PROP	81
3940	OR	COLUMBIA	MIST	GAS STORAGE FACILITY	PROP	0
4200	WA	SNOHOMISH	EVERETT	NORTON AVE TERMINAL	PROP	0
5015	AK	BARROW	PRUDHOE BAY	GAS TREATMENT PLANT	PROP	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
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REFINERIES

Refinery capacity in the U.S. has been increasing steadily in recent years to the point where petroleum imports now consist of crude oil in greater quantity than refined products (U.S. DOE, 1979a). Even so, there have been a great number of refinery projects which have been scrapped due to "lack of interest." The expressed reasons for this loss of interest are lack of stable government programs, unforeseen delays, high crude oil costs, inflation and spiraling construction costs (U.S. DOE, 1979e). More recently, the difficulty of securing a reliable source of crude oil has been heard as a reason more often. Environmental opposition has been a major factor in canceling new refinery projects on the East Coast. One study lists twenty-three Atlantic coast sites where proposed refineries have been dropped due to local and environmental opposition in the last 20 years (Princeton University Center for Environmental Studies, 1979). There are currently only six new refineries proposed on the Atlantic seaboard, four of which are expected to be small capacity refineries.

Tables 21 through 23 show existing, expanding, and proposed refineries by region. By far, the majority of existing coastal refinery capacity is located in the Gulf Coast region; the West Coast has about half of that amount, with the East Coast contributing about one-fourth of the Gulf capacity (U.S. DOE, 1979e).

There is a bias toward small refiners in DOE's entitlement program, which was designed to attempt to even up the disparities in the prices that refiners must pay for crude oil (expensive imports or cheap domestic oil). This fact has led to more small refineries being built; and this trend may continue in spite of DOE's recent reduction of the amount of the bias. Another advantage for small refineries is environmental: they may be able to get the required permits more easily, because of their smaller emissions. The economics of small refineries are such that groups of promoters will propose and follow through most of the permitting process for a refinery, expecting to sell out to a large company once the way for construction was cleared. This strategy may allow a good return on the money for the promoters, with little delay cost to the ultimate refinery owner, however, these deals will often fall through, with the result that more refineries are proposed than eventually are built. One study looking at refinery siting problems has suggested that a deepwater port connected by pipeline to an inland-rural refinery site might be the best economic and environmental solution for siting new refineries (Princeton University Center for Environmental Studies, 1979).

New refinery construction starts are likely to decrease in the nearer term, because of the impact of reduced demand recently due to high prices and conservation. Note that all of the proposed refineries listed in the tables are due to be completed within three years, in other words, the planning has been ongoing for several years. Very few refineries are in early planning at this time. Industry reports falling margins for both gasoline and residual fuel type refineries, indicating that many refiners may go out of business (Anonymous, 1980p). This business climate makes refinery conversions expensive, yet necessary. Conversions for the refining of particular kinds of crude, for instance from sweet to sour (high sulfur content), or from Indonesian to Alaskan crude oils, may be the most prevalent type of refinery construction or expansion. The alternative may be abandoning old refineries and building new small refineries to handle the preferred crude.

Table 21. Gulf Coast refineries.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
1700	FL WAKULLA	ST MARKS	SEMINOLE ASPHALT RFG	EXIST	0
1770	FL MANATEE	PALMETTO	MANATEE ENERGY CO	EXIST	0
1870	AL MOBILE	SARALAND	LA LAND/EXPLORATION	EXIST	0
1880	AL MOBILE	CHICKASAW	MOBILE BAY REFINING	EXIST	0
1890	AL MOBILE	DAPHNE	MARION CORP	EXIST	0
2045	MS JACKSON	PASCAGOULA	CHEVRON USA	EXIST	0
2095	LA CALCASIEU	LAKE CHARLES	LAKE CHARLES REFINING	EXIST	0
2215	LA VERMILLION	GUEYDAN	MALLARD RESOURCES	EXIST	0
2415	LA ST JAMES	CONVENT	TEXACO	EXIST	0
2440	LA ST JAMES	GOOD HOPE	GOOD HOPE REFINING	EXIST	0
2450	LA ST JOHN BAPT	FINDLY	RESERVE REFINERY	EXIST	0
2455	LA ST JOHN BAPT	GARYVILLE	MARATHON REFINERY	EXIST	0
2460	LA ST CHARLES	NORCO	SHELL	EXIST	0
2530	LA PLAQUEMINES	BELLE CHASE	GULF OIL	EXIST	0
2535	LA PLAQUEMINES	VENICE	GULF OIL	EXIST	0
2575	LA ST BERNARD	MERAUX	MURPHY	EXIST	0
2775	TX NUECES	CORPUS CHRISTI	7 REFINERIES	EXIST	0
2825	TX SAN PATRICIO	INGLESIDE	2 REFINERIES	EXIST	0
2900	TX VICTORIA	BLOOMINGTON	GULF OIL	EXIST	0
2960	TX BRAZORIA	ALVIN	MONSANTO	EXIST	0
3025	TX GALVESTON	TEXAS CITY	2 REFINERIES	EXIST	0
3100	TX HARRIS	HOUSTON	4 REFINERIES	EXIST	0
3185	TX JEFFERSON	PORT ARTHUR	4 REFINERIES	EXIST	0
1875	AL MOBILE	THEODORE	MARION CORP	EXPAN	0
1885	AL MOBILE	MOBILE	GETTY OIL	EXPAN	0
2090	LA CALCASIEU	LAKE CHARLES	CITIES SERVICE	EXPAN	80
2115	LA CALCASIEU	WESTLAKE	CONTINENTAL OIL	EXPAN	80
2425	LA ST JAMES	ST JAMES	LA. JET INC	EXPAN	82
2570	LA ST BERNARD	CHALMETTE	TENNECO	EXPAN	0
2685	TX CAMERON	VARIOUS	3 REFINERIES	EXPAN	0
2780	TX NUECES	CORPUS CHRISTI	3 REFINERIES	EXPAN	0
2830	TX SAN PATRICIO	INGLESIDE	4 REFINERIES	EXPAN	0
2965	TX BRAZORIA	SWEENEY	PHILLIPS	EXPAN	80
3030	TX GALVESTON	TEXAS CITY	TEXAS CITY REFINING	EXPAN	0
3105	TX HARRIS	HOUSTON	2 REFINERIES	EXPAN	0
3190	TX JEFFERSON	PORT ARTHUR	2 REFINERIES	EXPAN	0
2100	LA CALCASIEU	LAKE CHARLES	RESOURCE REFINING	PROP	80
2285	LA ST MARY	ATCHAFALAYA	VEN-TECH REFINERY	PROP	0
2435	LA ST JAMES	VACHERIE	TWIN OAK REFINING	PROP	0
2505	LA JEFFERSON	WESTWEGO	REFINERY SERVICES	PROP	0
2520	LA JEFFERSON	HARVEY	TIBER REFINING	PROP	81
2690	TX CAMERON	BROWNSVILLE	PETRACO VALLEY REFINING	PROP	80
2695	TX CAMERON	BROWNSVILLE	BARBOUR ENERGY CO	PROP	82
2970	TX BRAZORIA	FREEPORT	OYSTER CREEK	PROP	0
2975	TX BRAZORIA	FREEPORT	DOW CHEMICAL	PROP	80
3110	TX HARRIS	HOUSTON	NOVEX REFINING	PROP	80
3115	TX HARRIS	HOUSTON	PETROMAX	PROP	80
3120	TX HARRIS	HOUSTON	INTERCOASTAL REFINING	PROP	83

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 22. West Coast and Alaskan refineries.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
3365	CA	CONTRA COSTA	MARTINEZ	SHELL OIL	EXIST	0
3370	CA	CONTRA COSTA	MARTINEZ	URICH REFINERY	EXIST	0
3390	CA	CONTRA COSTA	RICHMOND	CHEVRON REFINERY	EXIST	0
3395	CA	CONTRA COSTA	HERCULES	PACIFIC REFINERY	EXIST	0
3400	CA	CONTRA COSTA	RODEO	UNION-OLEUM	EXIST	0
3505	CA	SN LUIS OBISPO	SANTA MARIA RIVER	UNION OIL	EXIST	0
3555	CA	SANTA BARBARA	SANTA MARIA	DOUGLAS REFINERY	EXIST	0
3645	CA	VENTURA	VENTURA	USA PETROLEUM	EXIST	0
3647	CA	VENTURA	OXNARD	OXNARD REFINING	EXIST	0
3705	CA	LOS ANGELES	VARIOUS	17 REFINERIES	EXIST	0
3865	OR	MULTNOMAH	PORTLAND	CHEVRON REFINERY	EXIST	0
4120	WA	WHATCOM	CHERRY POINT	ARCO REFINERY	EXIST	0
4125	WA	WHATCOM	CHERRY POINT	MOBIL OIL	EXIST	0
4175	WA	SKAGIT	ANACORTES	SHELL OIL	EXIST	0
4180	WA	SKAGIT	ANACORTES	TEXACO	EXIST	0
4250	WA	PIERCE	TACOMA	SOUND REFINING	EXIST	0
4660	AK	KENAI	NIKISKI	CHEVRON	EXIST	0
4665	AK	KENAI	NIKISKI	TESORO REFINERY	EXIST	0
3580	CA	SANTA BARBARA	SANTA MARIA	QUAD REFINERY	EXPAN	82
4245	WA	PIERCE	TACOMA	US OIL/REFINING	EXPAN	82
3375	CA	CONTRA COSTA	MARTINEZ	UCO REFINERY	PROP	81
3915	OR	COLUMBIA	RAINIER	CASCADE ENERGY CORP	PROP	0
4545	AK	VALDEZ	VALDEZ	ALPETCO REFINERY	PROP	85
4705	AK	KENAI	KENAI	ROYALTY OIL REFINERY	PROP	0
3920	OR	COLUMBIA		COLUMBIA INDEP CORP	POST	0

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[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 23. East Coast refineries.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
38	NH	ROCKINGHAM	NEWINGTON	ATC PETROLEUM	EXIST	0
315	RI	PROVIDENCE	EAST PROVIDENCE	MOBILOIL	EXIST	0
690	NJ	UNION	LINDEN	EXXON	EXIST	0
720	NJ	MIDDLESEX	PERTH AMBOY	CHEVRON	EXIST	0
725	NJ	MIDDLESEX	PORT READING	AMERADA HESS CORP	EXIST	0
875	DE	NEW CASTLE	DELAWARE CITY	GETTY OIL	EXIST	0
1020	MD	BALTIMORE	BALTIMORE	AMOCO OIL	EXIST	0
1025	MD	BALTIMORE	BALTIMORE	CHEVRON	EXIST	0
1120	VA	YORK	YORKTOWN	AMOCO OIL	EXIST	0
1225	NC	NEW HANOVER	WILMINGTON	NEW HANOVER	EXIST	0
1390	GA	CHATHAM	SAVANNAH	AMOCO OIL	EXIST	0
1400	GA	CHATHAM	SAVANNAH	SOUTHLAND OIL	EXIST	0
1	ME	WASHINGTON	EASTPORT	PITTSTON REFINERY	PROP	83
1145	VA	PORTSMOUTH	PORTSMOUTH	HAMPTON ROADS ENERGY CO	PROP	82
1200	NC	CARTERET	MOREHEAD CITY	CAROLINA REF/DIST	PROP	0
1230	NC	NEW HANOVER	BELVILLE	BRUNSWICK ENERGY	PROP	83
1270	SC	GEORGETOWN	GEORGETOWN	CAROLINA REF/DIST	PROP	0
1395	GA	CHATHAM	SAVANNAH	CAROLINA REF/DIST	PROP	0
220	MA	BRISTOL	NEW BEDFORD	REFINERY	POST	0
1155	VA	CHESAPEAKE	CHESAPEAKE	SWANN OIL	POST	0
1365	SC	JASPER		REFINERY	POST	0
1440	GA	GLYNN	BRUNSWICK	GA/FLA OIL	POST	0

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[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

TRANSPORTATION

Transportation of energy in the coastal zone centers around the major ocean ports which are listed in Table 24. The DWT notation identifies the maximum tonnage of a vessel which might safely enter that particular port, and also gives some indication of where the future deep water ports might be located. Table 25 lists the existing deep water ports and names the proposed and postulated sites as well.

Several states including California, New Jersey and Virginia have expressed a policy preference for pipelines to carry oil, gas or coal slurry in order to avoid spill hazards. There are some delays in planning and construction of proposed pipelines due to possible siting of required corridors and discussion of eminent domain; however, the trend is clearly toward a preference for this type of transportation especially given the lesser environmental impacts once construction is completed. Tables 26 and 27 list where the existing pipeline landfalls in the coastal zone are located, and the sites of possible future pipeline landfalls. Table 28 shows proposed gas pipelines.

Oil and chemical storage tank farms are increasing in number, due to oil market conditions. Oil companies, because of unstable and rising prices, are requiring buyers to take immediate delivery of oil supplies rather than providing storage for customers' oil. More small tank farms in dispersed locations are the result of this situation, leading to a greater potential for smaller, more frequent spills. Table 29 lists major oil transportation storage facilities.

Marine terminals allow the transfer of oil or gas from a tanker to shore, without requiring the tanker to navigate into a port facility. Most marine terminals are connected to existing facilities which require a steady supply of fuel, such as power plants or refineries. Marine terminals are also associated with OCS production as a means to transfer crude products from tankers to processing facilities.

Marine terminals (see Table 30) are located at the present time on the Pacific Coast and Alaska. There are more terminals proposed for the Pacific Coast, and the Florida Gulf Coast may have three terminals, if OCS development occurs there. Alaska is postulated to be the site of additional terminals in the future, mostly in conjunction with OCS development.

The anticipated surge in the domestic use of coal as an energy source teamed with the increasing foreign demand for American coal is placing mounting pressure on coastal resources and transportation facilities. Demands for new port facilities, additional dredging, and construction of slurry pipelines to port areas will probably increase as foreign orders for American metallurgical and steam coal continue to rise. Table 31 names the existing coal handling facilities in the nation, as well as those that are expanding, proposed and postulated.

A 1980 report by the World Coal Study Group forecast a possible tenfold increase in global steam coal imports by the end of the century. The United States, South Africa, and Australia will apparently be major suppliers of this coal. American ability to corner a section of this forthcoming market will depend heavily on the radical improvement of port loadout capabilities and the coal transportation network. With

Table 24. Existing major tanker ports in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
24	ME	CUMBERLAND	PORTLAND	PORT/MAX 70.000 DWT	EXIST	0
105	MA	SUFFOLK	BOSTON	PORT/MAX 60,000 DWT	EXIST	0
620	NY	NEW YORK	NEW YORK HARBOR	PORT/MAX 50.000 DWT	EXIST	0
1015	MD	BALTIMORE	BALTIMORE	PORT/MAX 35.000 DWT	EXIST	0
1130	VA	NEWPORT NEWS	HAMPTON ROADS	PORT/MAX 40.000 DWT	EXIST	0
1415	GA	CHATHAM	SAVANNAH	PORT/MAX 35.000 DWT	EXIST	0
1490	FL	DUVAL	JACKSONVILLE	PORT/MAX 50.000 DWT	EXIST	0
1590	FL	BROWARD	PORT EVERGLADES	PORT/MAX 50,000 DWT	EXIST	0
1635	FL	DADE	MIAMI	PORT/MAX 20,000 DWT	EXIST	0
1915	AL	MOBILE	MOBILE	PORT/MAX 50.000 DWT	EXIST	0
2055	MS	JACKSON	PASCAGOULA	PORT/MAX 50.000 DWT	EXIST	0
2105	LA	CALCASIEU	LAKE CHARLES	PORT/MAX 40,000 DWT	EXIST	0
2595	LA	ORLEANS	NEW ORLEANS	PORT/MAX 50.000DWT	EXIST	0
2790	TX	NUECES	CORPUS CHRISTI	PORT/MAX 55.000 DWT	EXIST	0
2950	TX	BRAZORIA	FREEPORT	PORT/MAX 40,000 DWT	EXIST	0
3035	TX	GALVESTON	TEXAS CITY	PORT/MAX 50.000 DWT	EXIST	0
3070	TX	GALVESTON	GALVESTON	PORT/MAX 35,000 DWT	EXIST	0
3130	TX	HARRIS	HOUSTON	PORT/MAX 50.000 DWT	EXIST	0
3160	TX	HARRIS	BAYTOWN	PORT/MAX 50.000 DWT	EXIST	0
3200	TX	JEFFERSON	PORT ARTHUR	PORT/MAX 40,000 DWT	EXIST	0
3215	TX	JEFFERSON	BEAUMONT	PORT/MAX 30.000 DWT	EXIST	0
3240	TX	JEFFERSON	NEDERLAND	PORT/MAX 30.000 DWT	EXIST	0
3385	CA	CONTRA COSTA	RICHMOND	PORT/MAX 35,000 DWT	EXIST	0
3405	CA	ALAMEDA	OAKLAND	PORT/MAX	EXIST	0
3435	CA	SAN FRANCISCO	SAN FRANCISCO	PORT/MAX 55,000 DWT	EXIST	0
3480	CA	SN LUIS OBISPO	ESTERO BAY	PORT/MAX 110.000 DWT	EXIST	0
3710	CA	LOS ANGELES	LOS ANGELES HARBOR	PORT/MAX 110,000 DWT	EXIST	0
3755	CA	LOS ANGELES	LONG BEACH	PORT/MAX 120,000 DWT	EXIST	0
3850	CA	SAN DIEGO	SAN DIEGO	PORT/MAX 35,000 DWT	EXIST	0
3870	OR	MULTNOMAH	PORTLAND	PORT/MAX 35,000 DWT	EXIST	0
4130	WA	WHATCOM	FERNDALE	PORT/MAX 150,000 DWT	EXIST	0
4185	WA	SKAGIT	ANACORTES	PORT/MAX 100.000 DWT	EXIST	0
4202	WA	SNOHOMISH	EVERETT	PORT	EXIST	0
4212	WA	KING	SEATTLE	PORT	EXIST	0
4255	WA	PIERCE	TACOMA	PORT/MAX 120,000 DWT	EXIST	0
4310	WA	THURSTON	OLYMPIA	PORT	EXIST	0
4331	WA	CLALLAM	PORT ANGELES	PORT	EXIST	0
4339	WA	JEFFERSON	PORT TOWNSEND	PORT	EXIST	0
4346	WA	GRAYS HARBOR	HOQUIAM	PORT	EXIST	0
4360	WA	COWLITZ	LONGVIEW	PORT ON COLUMBIA RIVER	EXIST	0
4365	WA	COWLITZ	KALAMA	PORT ON COLUMBIA RIVER	EXIST	0
4370	WA	CLARK	VANCOUVER	PORT ON COLUMBIA RIVER	EXIST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 25. Deep water or deep draft ports in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
2395	LA LAFOURCHE	OFFSHORE	LOOP	EXIST	0
2670	TX CAMERON	BROWNSVILLE	DEEP WATER PORT	EXIST	0
2675	TX CAMERON	PORT ISABEL	DEEP WATER PORT	EXIST	0
2785	TX NUECES	CORPUS CHRISTI	DEEP WATER PORT	EXIST	0
2875	TX CALHOUN	POINT COMFORT	DEEP WATER PORT	EXIST	0
3040	TX GALVESTON	TEXAS CITY	DEEPWATER PORT	EXIST	0
3045	TX GALVESTON	GALVESTON	DEEPWATER PORT	EXIST	0
3125	TX HARRIS	HOUSTON	DEEPWATER PORT	EXIST	0
3195	TX JEFFERSON	PORT ARTHUR	3 DEEPWATER PORTS	EXIST	0
1080	MD CHESAPEAKE BAY		CHANNEL DEEPENING BY COE	PROP	88
1936	AL MOBILE	MOBILE HARBOR	DREDGING PROJECT	PROP	90
2596	LA ORLEANS	N O/BATON ROUGE	DREDGING PROJECT	PROP	88
2795	TX NUECES	CORPUS CHRISTI	HARBOR ISLAND DEEPWATER PORT	PROP	0
2980	TX BRAZORIA	FREEPORT, 11 MI OUT	PHILLIPS AND OTHERS	PROP	0
3050	TX GALVESTON	GALVESTON	PELICAN IS DEEPWATER PORT	PROP	0
1301	SC CHARLESTON	CHARLESTON	DREDGING-S.3247/3258	POST	0
945	MD SOMERSET	CRISFIELD	DEEP WATER PORT	POST	0
1165	VA CHESAPEAKE BAY	DEEPWATER PORT	ENERGY CITY PROPOSAL	POST	0
3440	CA SAN FRANCISCO	SN FRANCISCO BAY	POTENTIAL DEEPWATER PORT	POST	0
3775	CA LOS ANGELES	HARBOR	POTENTIAL DEEPWATER PORT SITE	POST	0
3855	CA SAN DIEGO	SAN DIEGO	POTENTIAL DEEPWATER PORT SITE	POST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 26. Proposed and postulated pipeline landfalls in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
1790	FL MANATEE		PIPELINE OCS	PROP	0
1805	FL CHARLOTTE	BOCA GRANDE	PIPELINE OCS	PROP	0
2210	LA VERMILLION	VERMILLION PARISH	TENNESSEE GAS PIPELINE CO	PROP	0
2725	TX KLEBERG		PIPELINE LANDFALL	PROP	0
3530	CA SANTA BARBARA	VARIOUS	4 PIPELINE LANDFALLS	PROP	0
3610	CA VENTURA	VARIOUS	4 PIPELINE LANDFALLS	PROP	0
3690	CA LOS ANGELES	LONG BEACH	PIPELINE LANDFALL	PROP	81
735	NJ MONMOUTH	ASBURY PARK	OCS GAS PIPE	POST	0
760	NJ OCEAN	ISLAND BEACH	OCS GAS PIPE	POST	0
780	NJ ATLANTIC	ATLANTIC CITY	OCS GAS PIPE	POST	0
795	NJ CAPE MAY	SEA ISLE CITY	OCS GAS PIPE	POST	0
4460	AK SKAGWY-YAKUTAT	YAKUTAT	PIPELINE LANDFALLS	POST	0
4530	AK CORDOVA	PORT ECHES	PIPELINE LANDFALL	POST	0
4730	AK KENAI	SO KENAI	PIPELINE LANDFALL	POST	0
4735	AK KENAI	DRIFT RIVER	GAS PIPELINE LANDFALL	POST	0
4760	AK KODIAK	AFOGNAK IS/WEST	PIPELINE LANDFALL	POST	0
4780	AK KODIAK	AFOGNAK IS/EAST	PIPELINE LANDFALL	POST	0
4800	AK KODIAK	UGAK BAY	PIPELINE LANDFALL	POST	0
4835	AK ALEUTIAN IS	COLD BAY	PIPELINE LANDFALL	POST	0
4850	AK ALEUTIAN IS	ONSHORE	TRANSPENINSULA PIPELINE	POST	0
4855	AK ALEUTIAN IS	UNALASKA	PIPELINE LANDFALL	POST	0
4915	AK NOME	PASTOL BAY	PIPELINE LANDFALL	POST	0
4930	AK NOME	GOLOVIN BAY	PIPELINE LANDFALL	POST	0
4950	AK NOME	NOME	PIPELINE LANDFALL	POST	0
4970	AK KOBUK	KOTZEBUE SOUND	PIPELINE LANDFALL	POST	0
5030	AK BARROW	CAPE HALKETT	PIPELINE LANDFALL	POST	0
5040	AK BARROW	JONES ISLAND	PIPELINE LANDFALL	POST	0
5050	AK BARROW	PRUDHOE BAY	PIPELINE LANDFALLS	POST	0
5060	AK BARROW	CAMDEN-CANNING	PIPELINE LANDFALL	POST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 27. Existing pipeline landfalls in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
1535	FL BREVARD	PORT CANAVERAL	PIPELINE	EXIST	0
1980	MS HANCOCK		PIPELINE LANDFALL	EXIST	0
2005	MS HARRISON		PIPELINE LANDFALL	EXIST	0
2060	MS JACKSON		PIPELINE LANDFALL	EXIST	0
2175	LA CAMERON	CAMERON PARISH	24 PIPELINE LANDFALLS	EXIST	0
2205	LA VERMILLION	VERMILLION PARISH	7 PIPELINE LANDFALLS	EXIST	0
2295	LA ST MARY	VARIOUS	10 PIPELINE LANDFALLS	EXIST	0
2335	LA TERREBONNE	VARIOUS	17 PIPELINE LANDFALLS	EXIST	0
2495	LA JEFFERSON	VARIOUS	6 PIPELINE LANDFALLS	EXIST	0
2540	LA PLAQUEMINES	VARIOUS	45 PIPELINE LANDFALLS	EXIST	0
2580	LA ST BERNARD	VARIOUS	2 PIPELINE LANDFALLS	EXIST	0
2715	TX WILLACY		PIPELINE LANDFALL	EXIST	0
2730	TX KLEBERG		PIPELINE LANDFALL	EXIST	0
2805	TX NUECES	VARIOUS	4 PIPELINE LANDFALLS	EXIST	0
2835	TX SAN PATRICIO	BRAZOSPORT	NG PIPELINE CO	EXIST	0
2870	TX CALHOUN		PIPELINE LANDFALL	EXIST	0
2935	TX MATAGORDA	VARIOUS	4 PIPELINE LANDFALLS	EXIST	0
3000	TX BRAZORIA	VARIOUS	6 PIPELINE LANDFALLS	EXIST	0
3085	TX GALVESTON	VARIOUS	3 PIPELINE LANDFALLS	EXIST	0
3250	TX JEFFERSON	VARIOUS	8 PIPELINE LANDFALLS	EXIST	0
3525	CA SANTA BARBARA	VARIOUS	14 PIPELINE LANDFALLS	EXIST	0
3605	CA VENTURA	VARIOUS	3 PIPELINE LANDFALLS	EXIST	0
3685	CA LOS ANGELES	LONG BEACH	2 PIPELINE LANDFALLS	EXIST	0
3785	CA ORANGE	VARIOUS	5 PIPELINE LANDFALLS	EXIST	0
4645	AK KENAI	TRADING BAY-N/S	PIPELINE LANDFALLS	EXIST	0
4655	AK KENAI	NIKISHKA	PIPELINE LANDFALL	EXIST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 28. Proposed gas pipelines in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
39	NH ROCKINGHAM		TAPCO GAS PIPE	PROP	0
40	MA ESSEX	NE MASS	ALGONQUIN GAS	PROP	0
2810	TX NUECES	OFFSHORE	92 MILE GAS PIPELINE	PROP	0
3265	TX OCS	HIGH ISLAND AREA	GAS PIPELINE	PROP	0

Table 29. Oil transportation and storage facilities in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
23	ME CUMBERLAND	PORTLAND	PIPELINES TO CANADA	EXIST	0
1560	FL PALM BEACH	LAKE WORTH INLET	OIL STORAGE	EXIST	0
1985	MS HANCOCK	PEARLINGTON	OIL STORAGE	EXIST	0
2010	MS HARRISON	GULFPORT	OIL STORAGE	EXIST	0
2400	LA LAFOURCHE	ONSHORE	LOOP OIL STORAGE	EXIST	0
3985	OR LINCOLN	NEWPORT	YAQUINA BAY	EXIST	0
4070	OR DOUGLAS	REEDSPORT	UMPQUA ESTUARY/OIL STORAGE	EXIST	0
4080	OR COOS	COOS BAY	5 OIL TANKER TERMINALS	EXIST	0
4085	OR COOS	COOS BAY	TEXACO,UNION,CHEV TANK FARMS	EXIST	0
4320	WA PUGET SOUND	VARIOUS	TRANSMOUNTAIN PIPELINE	EXIST	0
4325	WA PUGET SOUND	VARIOUS	OLYMPIC PIPELINE	EXIST	0
1065	MD ST MARYS		OIL STORAGE	PROP	0
1785	FL MANATEE	PORT MANATEE	ONSHORE OIL STORAGE	PROP	0
1800	FL CHARLOTTE	BOCA GRANDE	ONSHORE OIL STORAGE	PROP	0
2340	LA TERREBONNE	CAILLOU	OIL TERMINAL	PROP	0
3715	CA LOS ANGELES	LONG BEACH	OIL DISTRIBUTION FACILITY	PROP	80
3910	OR COLUMBIA	PORT WESTWARD	GATX OIL STORAGE	PROP	0
4095	OR COOS	NORTH SPIT	PORT EXPANSION	PROP	0
4330	WA CLALLAM	PORT ANGELES	NORTHERN TIER PIPELINE	PROP	0
4335	WA CLALLAM	LOW POINT	TRANSMOUNTAIN PIPELINE	PROP	0

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[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 30. Marine terminals in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
3475	CA	SN LUIS OBISPO	PORT SAN LUIS	MARINE TERMINAL/OIL	EXIST	0
3485	CA	SN LUIS OBISPO	ESTERO BAY	CHEVRON	EXIST	0
3490	CA	SN LUIS OBISPO	ESTERO BAY	PG/E	EXIST	0
3495	CA	SN LUIS OBISPO	ESTERO BAY	TEXACO	EXIST	0
3500	CA	SN LUIS OBISPO	ESTERO BAY	US NAVY	EXIST	0
3535	CA	SANTA BARBARA	VARIOUS	5 MARINE TERMINALS	EXIST	0
3615	CA	VENTURA	VARIOUS	3 MARINE TERMINALS	EXIST	0
3695	CA	LOS ANGELES	EL SEGUNDO	CHEVRON/4 MARINE TERMINALS	EXIST	0
3765	CA	LOS ANGELES	LONG BEACH	MACMILLAN TERMINAL	EXIST	0
3790	CA	ORANGE	HUNTINGTON BEACH	GULF	EXIST	0
3825	CA	SAN DIEGO	ENCINA	SDG/E MARINE TERMINAL	EXIST	0
3930	OR	COLUMBIA	CLATSKANIE	OIL TERMINAL	EXIST	0
3950	OR	CLATSOP	ASTORIA	OIL TERMINALS	EXIST	0
4315	WA	PUGET SOUND	10 PORTS	MARINE TERMINALS	EXIST	0
4540	AK	VALDEZ	VALDEZ	MARINE TERMINAL	EXIST	0
4630	AK	KENAI	DRIFT RIVER	MARINE TERMINAL	EXIST	0
4675	AK	KENAI	NIKISKI	MARINE TERMINALS	EXIST	0
4090	OR	COOS	COOS BAY	UNION TERMINAL	EXPAN	0
1655	FL	ESCAMBIA	PENSACOLA	MARINE TERMINAL	PROP	0
1780	FL	MANATEE	PORT MANATEE	MARINE TERMINAL	PROP	0
1810	FL	CHARLOTTE	BOCA GRANDE	MARINE TERMINAL	PROP	0
3450	CA	MONTEREY	MOSS LANDING	NEW MARINE TERMINAL	PROP	0
3540	CA	SANTA BARBARA	VARIOUS	3 MARINE TERMINALS	PROP	0
3620	CA	VENTURA	VARIOUS	2 MARINE TERMINALS	PROP	0
3760	CA	LOS ANGELES	LONG BEACH	ARCO TANKER TERMINAL	PROP	0
3995	OR	LINCOLN	NEWPORT	NNG LNG TERMINAL	PROP	0
4465	AK	SKAGWY-YAKUTAT	YAKUTAT	MARINE TERMINAL	POST	0
45[illegible]	[illegible]K	CORDOVA	PORT ECHES	MARINE TERMINAL	POST	0
47[illegible]	AK	KODIAK	AFOGNAK IS/EAST	MARINE TERMINAL	POST	0
4795	AK	KODIAK	UGAK BAY	MARINE TERMINAL	POST	0
4845	AK	ALEUTIAN IS	SOUTH COAST	MARINE TERMINAL	POST	0
4860	AK	ALEUTIAN IS	UNALASKA	MARINE TERMINAL	POST	0
4910	AK	NOME	PASTOL BAY	MARINE TERMINAL	POST	0
4925	AK	NOME	ST MICHAELS BAY	MARINE TERMINAL	POST	0
4945	AK	NOME	NOME	MARINE TERMINAL	POST	0
4965	AK	KOBUK	KOTZEBUE SOUND	MARINE TERMINAL	POST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

Table 31. Coal handling and coal transportation facilities in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
1030	MD	BALTIMORE	CURTIS BAY	CHESSIE COAL TERM/B-O RR	EXIST	0
1035	MD	BALTIMORE	CANTON PIER	CONSOLIDATED RR	EXIST	0
1125	VA	NEWPORT NEWS	NEWPORT NEWS	CHESAPEAKE/OHIO RR (2 PIERS)	EXIST	0
1160	VA	NORFOLK	LAMBERTS POINT	NORFOLK/WESTERN RR(2)	EXIST	0
1925	AL	MOBILE	MOBILE	STATE COAL HANDLING DOCK	EXIST	0
3201	TX	JEFFERSON	FORT ARTHUR	COAL EXPORT FACILITIES	EXIST	0
3769	CA	LOS ANGELES	LOS ANGELES HARBOR	COAL EXPORT FACILITIES	EXIST	0
1920	AL	MOBILE	MCDUFFIE ISLAND	MCDUFFIE TERMINAL	EXPAN	0
2560	LA	PLAQUEMINES	DAVANT	ELECTRO-COAL TERMINAL	EXPAN	0
2590	LA	ORLEANS	NEW ORLEANS	N.O. BULK TERMINAL/COAL EXPORT	EXPAN	0
3770	CA	LOS ANGELES	LONG BEACH	COAL EXPORT FACILITIES	EXPAN	82
1040	MD	BALTIMORE	BALTIMORE	ISLAND CREEK COAL CO	PROP	0
1046	MD	ANNE ARUNDEL	MARLEY NECK	SOROS/COAL EXPORT PIER	PROP	85
1126	VA	NEWPORT NEWS	NEWPORT NEWS	MASSEY COAL EXPORT PIER	PROP	82
1150	VA	PORTSMOUTH	CRANEY ISLAND	COAL SUPERPORT	PROP	0
1935	AL	MOBILE	MOBILE HARBOR	COAL FROM TENN-TOM WATERWAY	PROP	0
3635	CA	VENTURA	OXNARD	BOEING COAL SLURRY PIPE	PROP	86
920	DE	KENT	BIG STONE BEACH/BAY	POTENTIAL COAL EXPORT TERMINAL	POST	0
1210	NC	CARTERET	MOREHEAD CITY	COAL EXPORT TERMINAL	POST	0
1235	NC	NEW HANOVER	WILMINGTON	COAL EXPORT TERMINAL	POST	0
2635	LA	PLAQUEMINES	DELTA AREA	POTENTIAL COAL EXPORT TERMINAL	POST	0
3430	CA	SAN FRANCISCO	PIER 94/PORT OF SF	POTENTIAL COAL EXPORT TERMINAL	POST	0
3871	OR	MULTNOMAH	PORTLAND	POTENTIAL COAL EXPORT	POST	0
3925	OR	COLUMBIA	FORT WESTWARD	POTENTIAL COAL EXPORT TERMINAL	POST	0
3951	OR	CLATSOP	ASTORIA	POTENTIAL COAL EXPORT	POST	0
4166	WA	WHATCOM	BELLINGHAM	POTENTIAL COAL EXPORT	POST	0
4246	WA	PIERCE	TACOMA	POTENTIAL COAL EXPORT	POST	0
4520	AK	CORDOVA	CORDOVA	COAL PIPELINE TERMINAL	POST	0
4615	AK	MATANUSKA	COOK INLET	COAL EXPORT TERMINAL	POST	0

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new coal orders from Europe and Japan on the rise, American ports are already experiencing a bottleneck of such dimensions that further expansion of the coal export market is being retarded.

The American coal and railroad industries are developing a number of solutions to the port bottleneck problem:

- Addition of new loading facilities — The Consolidated Coal Company is considering purchase of additional facilities in Baltimore that could be designed to handle ten million tons/year (tpy) of export coal. The Island Creek Coal Company is building its own export facility in Baltimore.
- Port dredging — Consideration is being given to dredging the Hampton Roads Channel from 45 to 55 feet in order to accommodate large trans-oceanic coal vessels more easily.
- Reopening oil piers and modernizing existing piers — Chessie plans to open an additional pier in Hampton Roads that was closed in 1976 because of lack of business. The railroad also plans to lease 88 acres to coal transshippers and buyers for storage space. There is interest in modernizing Conrail's Greenwich coal pier in Philadelphia to increase coal shipping capacity from two million tpy to thirteen million tpy.
- Developing new coal export potential — The McDuffie Coal Terminal in Mobile is being expanded to double loading capacity from 3,000 tons per hour. When the Tennessee-Tombigbee Waterway is completed (1986) giving the coal barge traffic on the Ohio and Tennessee Rivers access to Mobile, the port could rival Hampton Roads as the major coal exporting center in the country. The Port of New Orleans is also considered a prime target for expansion from its current three million tpy capacity to about thirteen million tpy. There is talk within the industries of developing a West Coast outlet (Portland is frequently mentioned) to give western coal producers access, either via rail or slurry pipeline, to Far East steam coal markets. Eventual development of Alaska's Beluga and Bering River coal fields is also postulated with slurry pipelines connecting to new export facilities in the Anchorage and Cordova vicinities.

STRATEGIC PETROLEUM RESERVE (SPR)

The Energy Policy and Conservation Act (EPCA) of 1975 authorized the creation of a Strategic Petroleum Reserve to diminish U.S. vulnerability in the event of a severe energy supply interruption. The DOE developed Reserve currently consists of one marine terminal, five salt dome storage areas, and an interconnecting pipeline network. The marine terminal (St. James Terminal) and four oil storage areas (West Hackberry, Sulphur Mines, Bayou Choctaw, and Weeks Island) are located in coastal Louisiana while the fifth storage area (Bryan Mound) is located in coastal Texas. The current storage capacity of the Reserve is approximately 250 million barrels, however, this will soon be expanded to 540 million barrels with an eventual capacity of 750 million barrels projected for 1989. Twenty million barrels of the final capacity is projected for location at an unselected site on the Atlantic coast, possibly in Rhode Island. Additional storage sites along the Louisiana and Texas coasts are also under consideration for possible development.

The current volume of oil in the Reserve is 91.7 million barrels. However, tight world oil market conditions had forced discontinuation of new oil purchases for the Reserve and filling had stopped in August 1979. Only recently has filling resumed at a rate of 10,000 b/d. By law, an average of 100,000 b/d must be injected into storage during the 1981 fiscal year, although the Saudis have indicated their opposition to such actions.

Development and operation of the Reserve are accompanied by the potential for impact on coastal resources. Access roads and pipelines to the various sites will be sources of physical disturbance. Creation of oil storage areas within the salt domes involves injection of water into the salt domes to dissolve out caverns and subsequent disposal of the brine water through diffusers into the Gulf. Increased brine concentrations around the diffusers could pose a hazard to shrimp and other marine life. Onshore wildlife and vegetation could be threatened by accidental spills of brine. During filling of the Reserve, oil tankers will traverse to and from the St. James Terminal and other private terminals where crude will be offloaded and moved via onshore pipelines to the storage sites. Should an energy emergency arise, oil will be pumped out of storage and through the pipeline network to inland destinations and the terminals for tanker haulage. The movement of large volumes of oil through the system during filling and response to emergencies will increase the likelihood of oil spills within the coastal zone.

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LIQUEFIED NATURAL GAS (LNG)

Liquefied natural gas (LNG) handling facilities are required when the gas consumer is not within economic pipeline distances. In such a case, natural gas is liquefied, transported via LNG tanker to a receiving facility, and revaporized. As shown in the accompanying Table 33, there are three LNG receiving facilities currently operating in the United States to import LNG. These facilities are located at Everett, MA, Cove Point, MD, and Elba Island, GA. The remaining existing plants are facilities which receive LNG either for storage or revaporizing. There are also LNG plants proposed for the North Atlantic region as well as one for the Central Gulf Coast, a plant in the Texas Gulf, one at Point Conception, CA, as well as one in Alaska (U.S. DOE, 1979c).

As OCS and state oil leases in Alaska are explored and developed, gas for export to the Lower 48 will become increasingly available. Gas from the Arctic Slope area will be moved south through the proposed Alcan pipeline. However, because of the distance from potential gas reserves in the Bering Sea and Gulf of Alaska to the Alcan pipeline, commercial quantities of gas in western and southern Alaska will probably be liquefied and transported south via LNG tankers. One gas liquefaction plant is already in operation on Cook Inlet and a second is planned to begin operation in 1985. Five or six additional liquefaction facilities are postulated for the coastal areas of the Bering Sea and Gulf of Alaska as gas reserves in these areas are discovered and developed. Gas from onshore and offshore strikes will be transported to the liquefaction plants via pipeline where it will be cleansed of minor constituents, liquefied, and loaded onto tankers. These tankers will supply the planned LNG handling facilities in Oregon and California (Anonymous, 1978b).

Although the worldwide forecast is for strong growth in the LNG trade, the prospects for siting of additional LNG receiving facilities in the United States are limited (Anonymous, 1979b). LNG importation is receiving a low priority in the nation's energy policy because of worries related to dependence on foreign energy supplies, siting and safety, and pricing. Within the past two years, the government has rejected proposals for two new LNG receiving facilities--one at Port O'Connor, Texas and the other in New Brunswick, Canada.

The major environmental impacts related to siting of LNG liquefaction and receiving facilities are land requirements for the facilities, dredging to allow tanker access, pipeline laying for gas transport to or from the facility, and thermal pollution from discharge of cooling water. Land requirements for a LNG facility vary according to the type of gas and the quantity of gas to be processed. A majority of the land required is for storage and safety purposes. One or more tanker berths must be associated with each LNG facility and dredging, breakwater construction, and filling may be required for each site. Movement of gas to liquefaction plants and away from receiving plants will necessitate the laying of pipelines through adjacent onshore and offshore environments. Liquefaction requires a drastic reduction in temperature (to - 260°F) and large quantities of water are needed to remove the extracted heat energy. This heated water will be discharged into coastal environment. Some liquefaction plants may be air-cooled. Minor gas constituents removed prior to liquefaction will require disposal. The spillage of LNG into coastal waters will fumigate the immediate environment with methane gas; however, long term effects should be minimal because of the quick vaporization and dispersal of the LNG. Explosion and fire could seriously damage coastal onshore habitats.

Table 33. LNG facilities in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
115	MA	SUFFOLK	BOSTON	LNG RECEIVING	EXIST	0
650	NY	RICHMOND	STATEN ISLAND	LNG-PEAKING FACILITY	EXIST	0
1060	MD	CALVERT	COVE POINT	COLUMBIA LNG	EXIST	0
1405	GA	CHATHAM	ELBA ISLAND	SOUTHERN CO LNG	EXIST	0
2135	LA	CALCASIEU	LAKE CHARLES	TRUNKLINE LNG CO	EXIST	0
3990	OR	LINCOLN	NEWPORT	NORTHWEST NATURAL GAS LNG	EXIST	0
4670	AK	KENAI	NIKISKI	PHILLIPS/MARATHON LNG	EXIST	0
60	MA	MIDDLESEX	EVERETT	DISTRIGAS OF MASS	PROP	0
230	MA	BRISTOL	FALL RIVER	NEW ENGLAND LNG	PROP	0
640	NY	RICHMOND	STATEN ISLAND	ENERGY TERMINAL SERVICE	PROP	0
645	NY	RICHMOND	ROSSVILLE, STATEN IS	TEXAS EASTERN CRYOGENICS	PROP	0
2050	MS	JACKSON	PASCAGOULA	TENNECO LNG	PROP	0
2880	TX	CALHOUN	POWDERHORN RANCH	ALGERIA II	PROP	0
3575	CA	SANTA BARBARA	POINT CONCEPTION	LNG PLANT	PROP	0
4700	AK	KENAI	KENAI	PACIFIC ALASKA LNG	PROP	85
285	RI	NEWPORT	PRUDENCE ISLAND	LNG-TAPCO ALTERNATIVE	POST	0
330	RI	WASHINGTON	BRADFORD	WESTERLY LNG	POST	0
1205	NC	CARTERET		LNG	POST	0
1285	SC	CHARLESTON	CHARLESTON	CHICAGO BRIDGE/IRON	POST	0
3205	TX	JEFFERSON	PORT ARTHUR	LNG PLANT	POST	0
3955	OR	CLATSOP	ASTORIA	LNG MARINE TERMINAL	POST	0
4470	AK	SKAGWY-YAKUTAT	YAKUTAT	LNG PLANT	POST	0
4490	AK	CORDOVA	ICY BAY	LNG PLANT	POST	0
4500	AK	CORDOVA	KAYAK ISLAND	LNG PLANT	POST	0
4535	AK	CORDOVA	PORT ECHES	LNG PLANT	POST	0
4770	AK	KODIAK	AFOGNAK IS/EAST	LNG PLANT	POST	0
4790	AK	KODIAK	UGAK BAY	LNG PLANT	POST	0
4840	AK	ALEUTIAN IS	SOUTH COAST	LNG PLANT	POST	0
4865	AK	ALEUTIAN IS	UNALASKA	LNG PLANT	POST	0
4940	AK	NOME	NOME	LNG PLANT	POST	0
4975	AK	KOBUK	KOTZEBUE SOUND	LNG PLANT	POST	0

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[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
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GEOTHERMAL

The Gulf Coast of Texas and Louisiana is receiving an increasing amount of consideration for future geothermal energy development. This resource differs geologically from other geothermal resource areas in the United States in that it is not associated with cooling magmas, tectonism, or seismic events, but rather consists of deeply buried, highly pressurized water trapped in sedimentary deposits. This geopressurized system has water temperatures of 150 to 273 degrees Celsius at depths of four to seven kilometers. As an added asset, the waters contain considerable amounts of dissolved methane gas, up to 30 cubic feet per barrel of water, that could be extracted.

Seven potential geothermal-geopressure areas of interest have been identified along the Texas Coast and six prospect areas have been delineated in southern Louisiana (Wallace, 1980). Detailed geologic studies have been completed for two of the Louisiana sites and test wells have been drilled or are planned for several of the areas. These areas underlie a variety of coastal and offshore environments. Development will consist of production wells for bringing the heated water to the surface, generating facilities for converting the thermal energy into electrical energy, and disposal facilities (probably reinjection wells) for disposing of the waste water. Although production wells could be drilled in any of the coastal environments, including offshore, the generating and disposal facilities are likely to be sited on land. A system of pipelines would connect the array of production and reinjection wells to the generating facilities. These pipelines could require extensive dredging or burial. Facilities for recovery of methane and additional thermal energy may also be sited. Development of geothermal-geopressure resources in the Gulf area is still in the test well phase and siting of actual production facilities has not yet been proposed.

The more conventional forms of geothermal heat (dry steam, wet steam and water, and dry rock) that are associated with magmas and tectonism have not been identified in abundance in the coastal zone. Exploration for these types of resources is underway or postulated for several coastal areas, most notably Maryland and the Seward Peninsula in Alaska. Development experience with dry steam and wet steam resources at inland locations could hasten the development of coastal geothermal resources if and when they are discovered. In a move to stimulate development of hydrothermal resources, the Department of Energy will spend $10 million in 1981 to help provide financial backing for the exploration of geothermal sites. The resulting exploration may further focus known sites and may lead to discoveries of new coastal geothermal sites.

Subsidence resulting from the withdrawal of enormous volumes of geothermal fluids during the tapping of geopressured or wet steam and water geothermal resources could cause significant impacts in wetland areas where slight changes in elevation can result in extensive lateral shifts in wetland vegetation zones. The geothermal fluids withdrawn are complex solutions that cannot be equated to concentrated sea water because of irregular ion balances. Accidental spillage or purposeful disposal of the fluids into the coastal environment could have serious consequences due to salinity and temperature increases in receiving waters and effects of toxic elements. Siting of facilities, wells, and pipelines will cause deleterious effects to fish and wildlife resources and habitat.

Table 34. Geothermal-geopressured resource exploration areas in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
940	MD SOMERSET	CRISFIELD	GEOTHERMAL EXPLORATION	EXIST	0
2180	LA CAMERON	EASTERN COASTAL AREA	GETTY/BUTTES O/G CO	EXIST	0
2200	LA VERMILLION	ABBEVILLE	COASTAL STATES GAS	EXIST	0
4900	AK NOME	SEWARD PENINSULA	GEOTHERMAL	POST	0
2145	LA CALCASIEU	SULFUR	GEOPRESSURED PROSPECT AREA	PROP	0
2190	LA CAMERON	JOHNSON BAYOU	GEOPRESSURED PROSPECT AREA	PROP	0
2305	LA ST MARY	OFFSHORE	EUGENE IS/GEO PROSPECT AREA	PROP	0
2330	LA TERREBONNE	ATCHAFALAYA BAY	GEOPRESSURED PROSPECT AREA	PROP	0
2360	LA TERREBONNE	OFFSHORE	SO TIMBALIER/GEO PROSPECT AREA	PROP	0
2405	LA LAFOURCHE	THIBODAUX	GEOPRESSURED PROSPECT AREA	PROP	0
2705	TX CAMERON	WESTERN COUNTY	GEOTHERMAL FAIRWAY	PROP	0
2840	TX SAN PATRICIO	ARANSAS PASS	GEOTHERMAL FAIRWAY	PROP	0
2895	TX CALHOUN	OFFSHORE	MUSTANG IS GEOTHERMAL FAIRWAY	PROP	0
2940	TX MATAGORDA	MATAGORDA	GEOTHERMAL FAIRWAY	PROP	0
2995	TX BRAZORIA	LIVERPOOL	GEOTHERMAL FAIRWAY	PROP	0
3020	TX BRAZORIA	OFFSHORE	BRAZOS GEOTHERMAL FAIRWAY	PROP	0
3170	TX HARRIS	NORTHERNCOUNTY	GEOTHERMAL FAIRWAY	PROP	0

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[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
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SYNFUELS

Recent passage of legislation forming the Synthetic Fuels Corporation (SFC) has touched off a flurry of activity at the U.S. Department of Energy, (DOE), which has been authorized to spend a portion of the SFC's money. The SFC's mission is to aid commercial ventures proposing to produce fuels from coal, oil shale and tar sands. In connection with the SFC effort, DOE has awarded $200 million for 99 feasibility studies and 11 cooperative agreements. These awards include both coal-based and biomass related synfuels development (Anonymous, 1980o).

Coal-Based Synfuels

The coal-based synfuels technologies include gasification of coal, by various methods, to produce low to medium Btu gas, methane, or methanol. Coal-oil mixtures and other materials to supplement coal for fuel, are being investigated under the synfuels rubric.

The sites for the feasibility studies and proposed projects are generally near a supply of coal, or where an existing facility can be converted to test the technology. The accompanying Table 35, lists the sites of coal-based synfuels projects and feasibility studies which are located in coastal counties.

Synfuels plants are developments generally similar to power plants; in other words, many of the impacts will be similar to power plants. Hence, the major impacts of concern from synfuels development are air quality, water availability for both intake and discharge, ecological sensitivity of areas of mining, habitat disturbance at plant location, and possible toxic discharges.

Large areas around the plant may be needed for coal storage, product distribution and storage, as well as buffer zones, cooling or evaporation ponds and hazardous waste storage and disposal.

Biomass Synfuels

The DOE has the lead on the Federal biomass program, in cooperation with the Department of Agriculture. Many biomass projects were included in the DOE feasibility study awards mentioned above. Most of the biomass projects are related to alcohol production from agricultural, wood, or waste products, and the proposed plants are located near the sources to be used. Solid waste, sludge and refuse are sources proposed in many urbanized areas with waste disposal problems, most notably the New York City Metropolitan area. One proposal suggests a floating, offshore plant to produce alcohol from New York's waste, and a similar plant is proposed for the Mississippi Delta area. The other proposals, as listed in the accompanying table, are located to use nearby local agricultural feedstock or forest wastes, for alcohol production.

The impacts from biomass synfuels are of two kinds. One set of impacts arises from the agricultural uses, such as habitat disturbance, drainage of wetlands, and water quality problems from pesticide or irrigation runoff. The other set of impacts stems from the operation of the alcohol plants themselves, which may have air and water discharges as well as habitat disturbance at the plant site.

Table 35. Coal-based synfuel facilities in the United States.

No.[a]	State / county	City / location	Facility name / description	Status[b]	Year
4260	WA PIERCE	FORT LEWIS	SYNFUELS PILOT PLANT	EXIST	0
11	ME WALDO	SEARS ISLAND	TEXACO-SYNFUELS/MED BTU GAS	POST	0
1475	FL DUVAL	JACKSONVL/BLOUNT IS	COAL-OIL MIXTURE PREP PLANT	POST	0
1735	FL FINELLAS	ST PETERSBURG	SYNFUELS/MED BTU GAS	POST	0
3970	OR CLATSOP		COAL SLURRY/GAS PLANT/NPC	POST	0
4610	AK MATANUSKA	COOK INLET	COAL SYNFUELS/METHANOL	POST	0
125	MA NORFOLK	WEYMOUTH	COAL GAS PLANT	PROP	89
215	MA BRISTOL	FALL RIVER	EG/G SYNFUELS MED BTU GAS	PROP	0
2120	LA CALCASIEU	WESTLAKE	COAL TO SYNGAS	PROP	0
2420	LA ST JAMES	CONVENT	TEXACO/METHANOL FROM COAL	PROP	0
2800	TX NUECES	BISHOP	SYNFUELS/SYNGAS FROM COAL	PROP	0
3055	TX GALVESTON	TEXAS CITY	SYNFUELS/LOW-MED BTU GAS	PROP	0
3060	TX GALVESTON	GULF COAST	SYNFUELS/MED BTU GAS	PROP	0
3154	TX HARRIS	LAPORTE	INDIRECT COAL LIQUIFACTION	PROP	0
3155	TX HARRIS	BAYTOWN	EXXON/SYNFUELS	PROP	0
3455	CA MONTEREY	SAN ARDO	COAL GASIFICATION/COGENERATION	PROP	0

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Table 36. Biomass synfuel facilities in the United States.

No.[a]	State / county		City / location	Facility name / description	Status[b]	Year
885	DE	NEW CASTLE	WILMINGTON	PIGEON POINT SOLID WASTE	EXIST	0
3815	CA	ORANGE	LAGUNA BEACH	KELP BIOMASS FARM	EXIST	0
2	ME	WASHINGTON	JONESPORT BOG	PEAT MINING	PROP	0
595	NY	NEW YORK	MANHATTAN	SYNFUELS/FUEL FROM SLUDGE	PROP	0
625	NY	NEW YORK	NY OFFSHORE	ALCOHOL FROM WASTE	PROP	0
655	NY	RICHMOND	STATEN ISLAND	FRESH KILL LANDFILL	PROP	0
726	NJ	MIDDLESEX		PLASTIC/LEAF ALT FUEL	PROP	82
961	MD	CAROLINE	FEDERALSBURG	ETHANOL DISTILLERY	PROP	81
1001	MD	BALTIMORE	BALTIMORE	ETHANOL FROM CORN/BREWERY	PROP	0
1002	MD	BALTIMORE	BALTIMORE	SNG FROM WASTE/COAL	PROP	86
1011	MD	BALTIMORE	BALTIMORE	ETHANOL FROM CORN/CELLULOSE	PROP	0
1142	VA	PORTSMOUTH	PORTSMOUTH	REFUSE-DERIVED FUEL PLANT	PROP	85
2250	LA	IBERIA	NEW IBERIA	OASIS/ETHANOL REFINERY	PROP	82
2290	LA	ST MARY	FRANKLIN	LA GASOHOL CORP (2)	PROP	0
2390	LA	LAFOURCHE	THIBODAUX	SYNFUELS/ETHANOL FROM CROPS	PROP	0
2640	LA	DELTA AREA		U S ETHANOL/ETHANOL PLANT	PROP	0
2645	LA	DELTA AREA	OFFSHORE	ALCOHOL FROM WASTE	PROP	0
3442	CA	SANTA CLARA	SUNNYVALE	METHANE FROM WATER TREAT	PROP	0
3652	CA	LOS ANGELES	GARDENA	WASTE FOR ELECTRICITY	PROP	0
3653	CA	LOS ANGELES	SAN FERNANDO	LANDFILL GAS RECOVERY	PROP	0
3846	CA	SAN DIEGO	SAN DIEGO	WASTE FOR STEAM/ELECTRICITY	PROP	0
4000	OR	LINCOLN	NEWPORT	NNG PYROLYSIS/FOREST WASTE	PROP	0
4201	WA	SNOHOMISH	EVERETT	LOW BTU GAS FROM WOOD WASTE	PROP	0
4262	WA	PIERCE	TACOMA	ETHANOL FROM CORN/BREWERY	PROP	0
2	ME	WASHINGTON		PEAT-DERIVED FUEL PROCESS	POST	0
12	ME	WALDO	SEARS ISLAND	SYNFUELS/ETHANOL FROM CORN	POST	0
110	MA	SUFFOLK		SYNFUELS/ETHANOL FROM CROPS	POST	0
111	MA	SUFFOLK	BOSTON	REFUSE TO ENERGY SYSTEM	POST	0
656	NY	RICHMOND	STATEN ISLAND	LANDFILL GAS RECOVERY	POST	0
925	MD	DELMARVA PENN.		SYNFUELS/ETHANOL FROM CROPS	POST	0
1112	VA	YORK		WASTE/TO/ENERGY	POST	0
1280	SC	CHARLESTON		SYN/REFUSE TO SUPPLEMENT COAL	POST	0
1607	FL	DADE	MIAMI	ETHANOL FROM CELLULOSIC TRASH	POST	0
2526	LA	PLAQUEMINES		ETHANOL FROM CORN	POST	0
2598	LA	ORLEANS	NEW ORLEANS	ETHANOL FROM CORN	POST	0
3360	CA	CONTRA COSTA	BENICIA	SYNFUELS/ETHANOL FROM CORN	POST	0
3415	CA	ALAMEDA	OAKLAND	SYNFUELS/METHANE FROM WASTE	POST	0
3441	CA	SANTA CLARA		GAS FROM LANDFILL	POST	0
3651	CA	LOS ANGELES		GAS FROM LANDFILL	POST	0
3875	OR	MULTNOMAH	PORTLAND	SYNFUELS/GAS FROM WASTE	POST	0
4401	AK	PRINCE/WALES	KLAWOCK	ETHANOL FROM WOOD WASTE	POST	0

[a] No. is given as a cross reference to the complete computer inventory lists in Appendix.

[b] Exist = an existing facility
Expan = a planned expansion of an existing facility
Prop = a proposed facility
Post = a postulated facility, which may occur if some intervening events occur

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AREA BY AREA ANALYSIS

This section includes discussions of the energy developments in each of the selected areas: North Atlantic (Maine to Massachusetts), Mid-Atlantic (Rhode Island to Virginia), South Atlantic (North Carolina to Florida), Central and Eastern Gulf of Mexico (Florida to Louisiana), Texas Gulf Coast, Pacific Coast (Washington to California), and Alaska.

Accompanying these discussions are six sets of maps (North and Mid-Atlantic are on one map). There are three maps in each set: one showing existing coastal energy developments, one showing proposed and postulated developments, and one showing total coastal energy development if all proposed and postulated projects occur. The maps only account for energy developments in coastal counties, parishes, and boroughs. The lone exception is the Mississippi Delta area where several inland parishes have been included because of the coastal nature of the habitat. Maps of the coastal counties follow the development maps as a means of correlating those maps with the computer-generated tables. Developments were located on the maps according to county locations, not exact locations, and hence the maps are meant to show general locational concentrations of energy development.

For several coastal counties having boundaries extending great distances inland (Southern California and Oregon), power plants located in the extreme inland areas were not mapped when it was obvious that they have a negligible effect on coastal resources. Small power plants (less than one megawatt) were generally not mapped in the State of Alaska; however, most were included in the rest of the country, most notably in New England. In counties or regions having heavy concentrations of energy facilities, a number preceding the facility symbol indicates the number of facilities in that area.

Also accompanying the maps are tables listing the developments upon which the maps are based. The "expansions" category was included within the "existing", and the "postulated" were included within the "proposed" category for the purpose of mapping. The key to the abbreviations used in the computer generated tables is located in the Appendix.

REGION 5 - NORTH ATLANTIC (ME, NH, MA)

The North Atlantic region, once the foremost industrial area in the nation because of the generation of power from the numerous streams and rivers there, is now rediscovering low-head hydroelectric power. About 1,800 potential low-head hydro sites have been identified in New England, although only a fraction of these are realistically expected to be developed. The generation of electric power is the major energy issue in the region, with either oil-fueled power plants or hydroelectric power constituting the majority of existing coastal energy development. An expansion of the Brayton Point coal-fired power plant in Massachusetts is planned for 1982, and a new coal-fired plant is proposed for Sears Island, Maine to be completed by 1989. The Maine Yankee nuclear power plant recently narrowly survived a state initiative on nuclear power which would have shut down the operating plant. An expansion is planned for the Pilgrim nuclear plant in Plymouth, Massachusetts in 1985, and the Seabrook nuclear plant in New Hampshire is scheduled to begin operations in 1983.

The proposed Pittston Refinery in Eastport, Maine has encountered environmental opposition because of its location in a crucial staging area for the Atlantic Flyway. The only existing refinery in the region is located in Newington, New Hampshire. This refinery has a capacity of 10,000 b/d, and is supplied with most of its crude oil by pipeline from the major tanker ports in Portland, Maine and Boston, Massachusetts. A major pipeline route supplying oil to Canadian refineries begins at the port in Portland, Maine. Tapco has proposed a natural gas pipeline in New Hampshire, as has Algonquin Gas in Massachusetts. There is a small LNG receiving plant at Everett, Massachusetts.

OCS tracts have been leased in the Georges Bank area; however, controversy still surrounds exploratory drilling activities based on potential impacts to the valuable Georges Bank fisheries. OCS drilling activities in the area have been supported from the Davisville-Quonsett facilities in Rhode Island, and some transportation support has been supplied from Cape Cod. Further, OCS support development is postulated in Cape Cod and Southern Massachusetts, in the event of sizeable finds in the Georges Bank Lease area.

There have been four awards for synfuels feasibility studies in the North Atlantic area, both for coal gasification (Sears Island, Maine and Weymouth, Massachusetts) and alcohol processes (Sears Island, Maine and Boston, Massachusetts).

There are very few urbanized areas in the Maine and New Hampshire coastal zones, while the majority of the Massachusetts shoreline is subject to development. Forests, wetlands and barrier island systems constitute the majority of the rural land uses in the North Atlantic. Coastal estuaries, marshes and wetlands are of crucial importance to the millions of birds who migrate along the Atlantic Flyway. Waterfowl, and other birds, such as waders and rails, shorebirds, gulls and terns, all use the coastal wetlands, as do the endangered bald eagle and peregrine falcon. North Atlantic estuaries and nearshore areas are important spawning areas for the rich Georges Bank fisheries. This area is one of the most significant fisheries in the world, and supports a large commercial fishing fleet, as well as sport fishing activities.

Several important species of anadromous fish use the coastal rivers and streams. The FWS has identified several Important Resource Priorities (IRP's) in the North Atlantic including anadromous fish (Atlantic salmon and shad), migratory waterfowl (diving ducks, black ducks) and migatory shorebird staging areas (Eastern Maine).

Air quality and the acid rain problem have reached major importance in the North Atlantic region, posing a major constraint for further energy development. This constraint arises in pristine areas, such as in Waldo County, Maine, where proposed development is near enough to Acadia National Park to threaten that non-deterioration area, as well as in metropolitan areas. Solid waste disposal is also a problem in urbanized areas (U.S. DOE, 1979).

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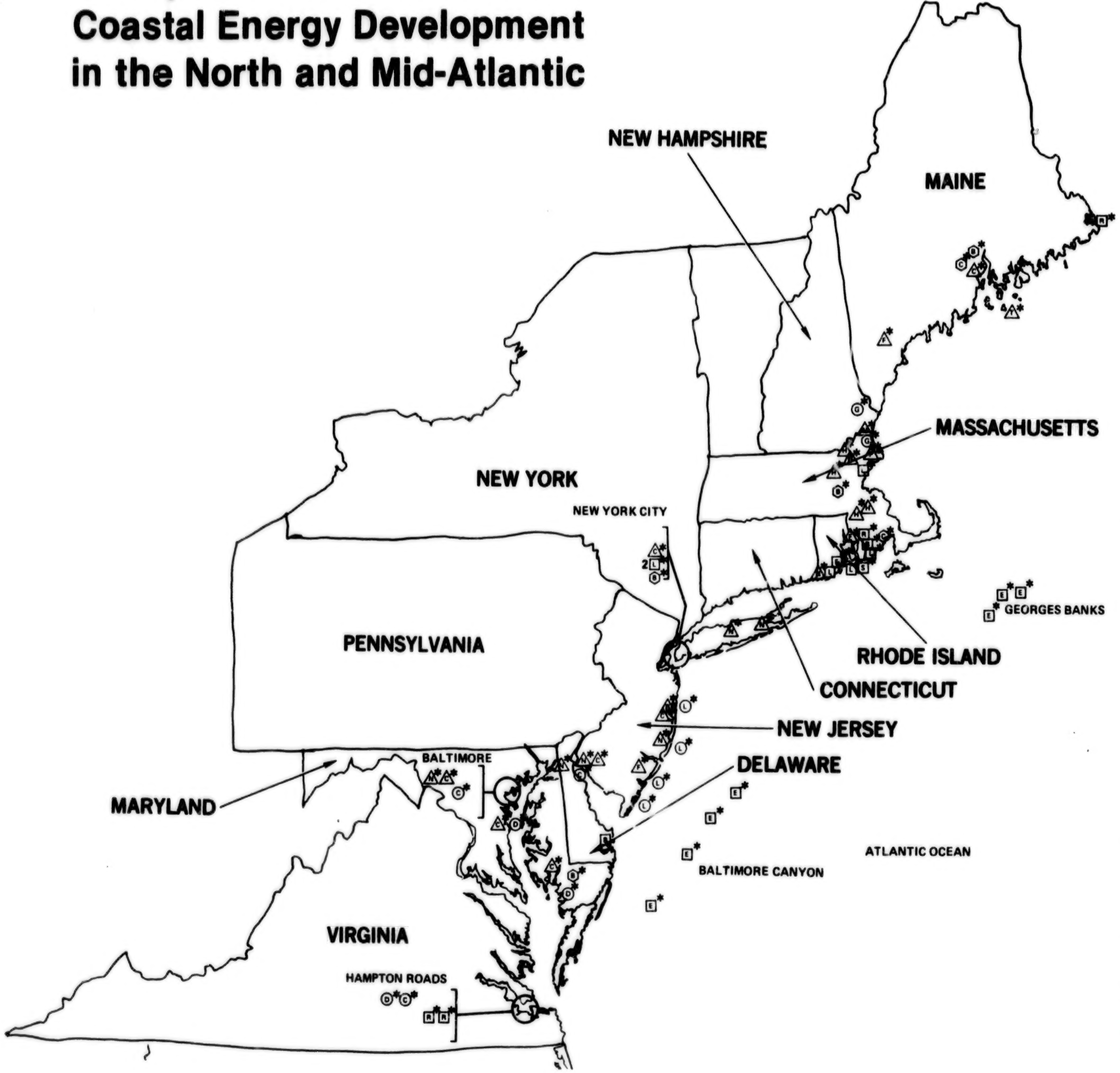
MAP 1
Proposed and Postulated Coastal Energy Development in the North and Mid-Atlantic



LEGEND

OIL AND GAS

□* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

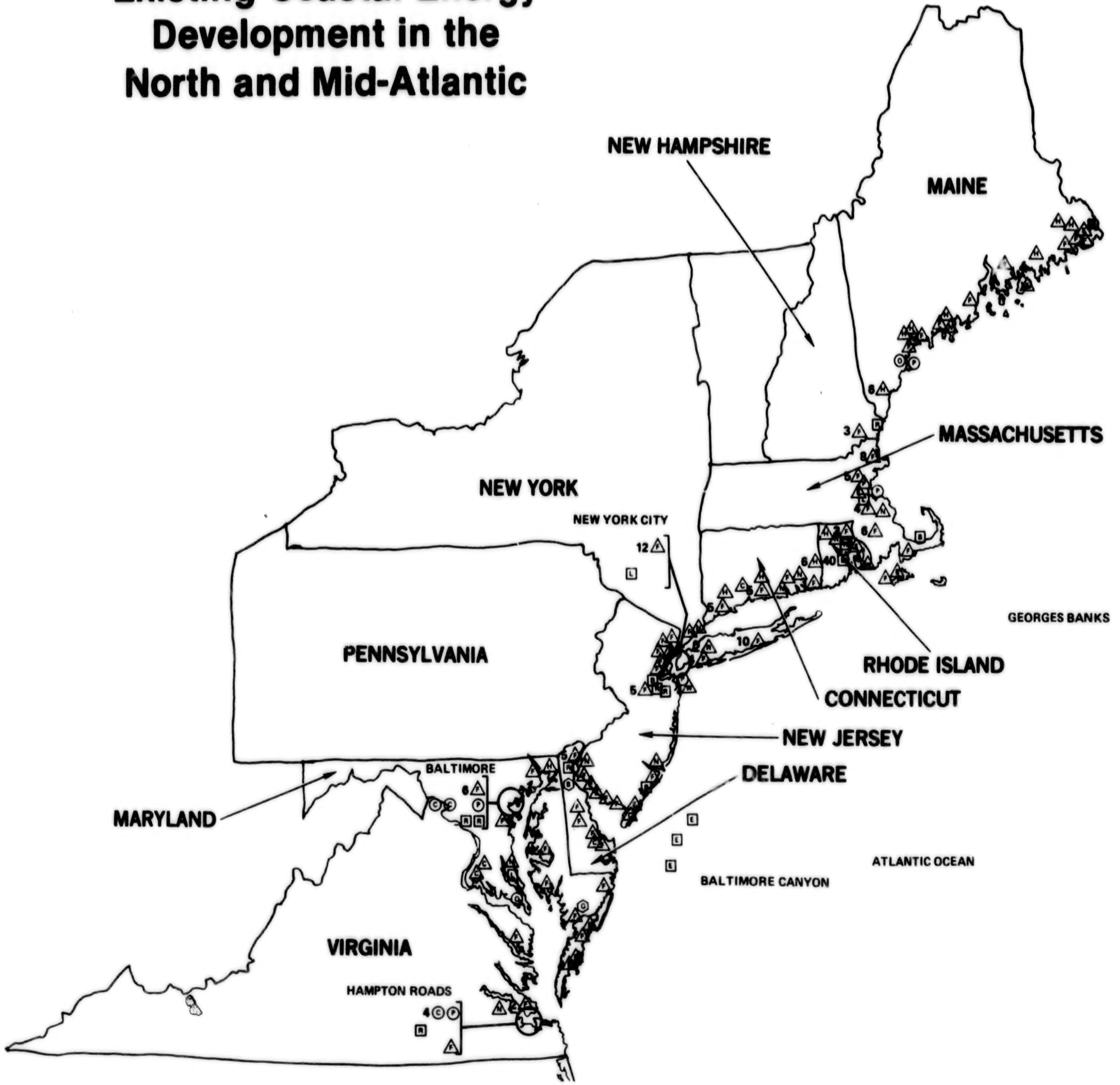
OTHER

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

MAP 2
Existing Coastal Energy Development in the North and Mid-Atlantic



LEGEND

OIL AND GAS

□ = EXISTING

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

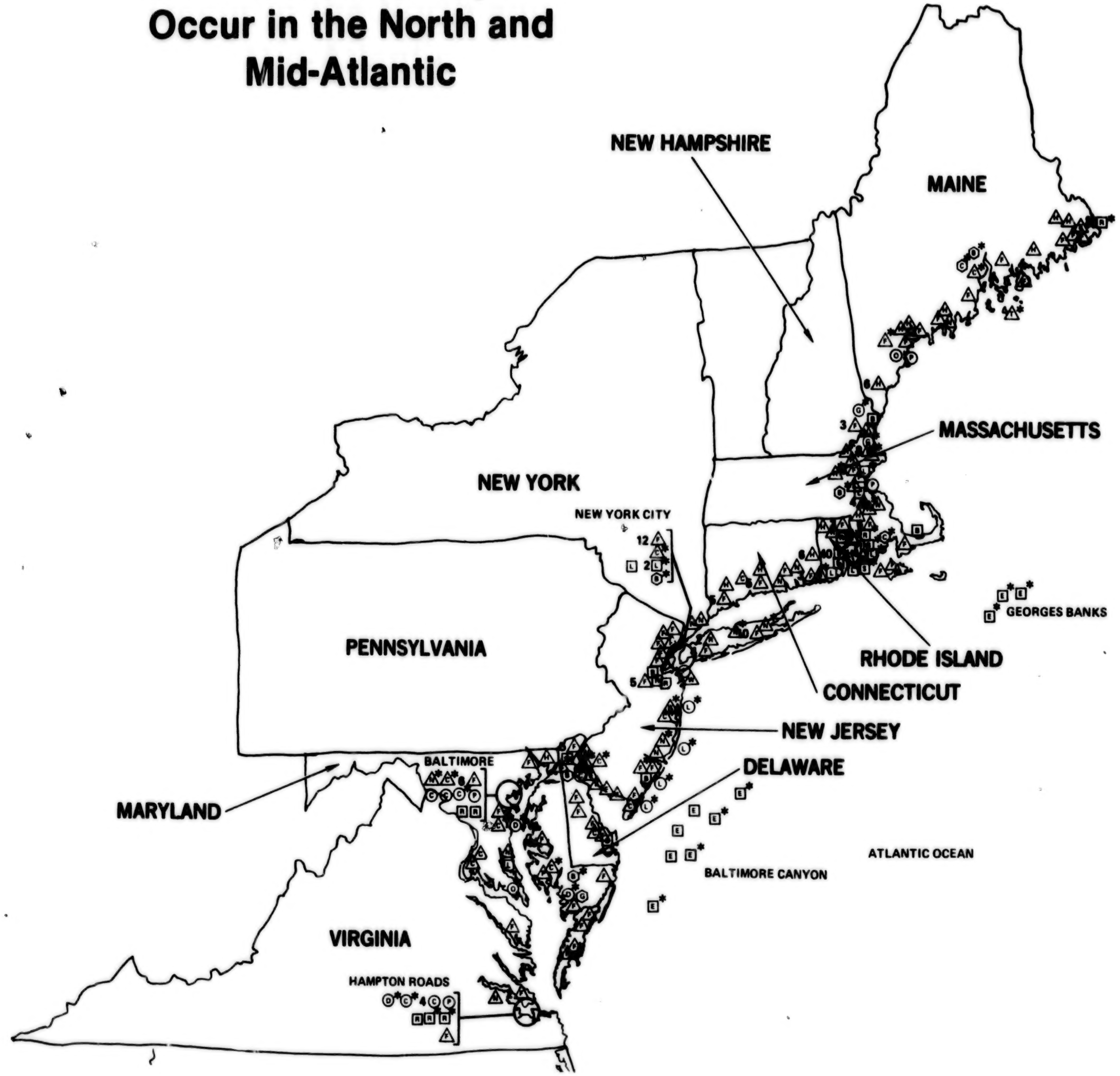
OTHER

⬡ = EXISTING

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

MAP 3
Total Coastal Energy Development if All Proposed and Postulated Projects Occur in the North and Mid-Atlantic



LEGEND

OIL AND GAS

□ = EXISTING

□* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ = EXISTING

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

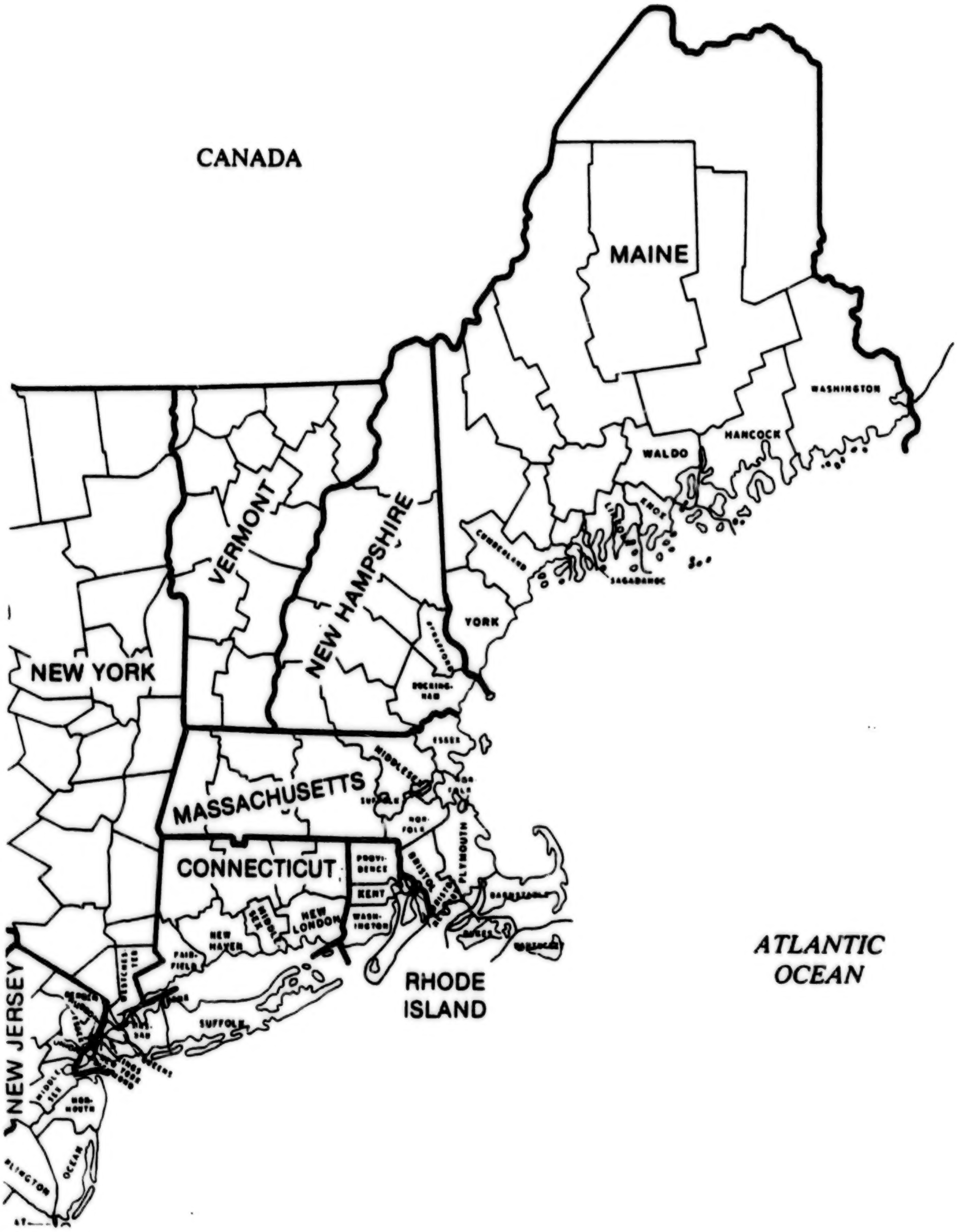


Figure 5. Coastal counties in the Northeastern States.

Table 37. All coastal energy facilities in the North Atlantic area.

No.	State / county		City / location	Facility name / description	Type	Code[a]	Status	Year
1	ME	WASHINGTON	EASTPORT	PITTSTON REFINERY	O/G	REFN	PROP	83
2	ME	WASHINGTON		RIVER STREET	PWR	FOSL	EXIST	0
2	ME	WASHINGTON		PEAT-DERIVED FUEL PROCESS	SYN	BIOM	POST	0
2	ME	WASHINGTON	JONESPORT BOG	PEAT MINING	SYN	BIOM	PROP	0
3	ME	WASHINGTON		PORTABLE	PWR	FOSL	EXIST	0
4	ME	WASHINGTON		EAST MACHIAS	PWR	FOSL	EXIST	0
5	ME	WASHINGTON		EASTPORT	PWR	FOSL	EXIST	0
6	ME	WASHINGTON		UPPER RUMFORD FALLS	PWR	HYD	EXIST	0
7	ME	WASHINGTON		LOWER RUMFORD FALLS	PWR	HYD	EXIST	0
8	ME	HANCOCK	BAR HARBOR	BAR HARBOR	PWR	FOSL	EXIST	0
9	ME	HANCOCK		ELLSWORTH	PWR	HYD	EXIST	0
10	ME	WALDO		ISLESBORO	PWR	FOSL	EXIST	0
11	ME	WALDO	SEARS ISLAND	TEXACO-SYNFUELS/MED BTU GAS	SYN	COAL	POST	0
12	ME	WALDO	SEARS ISLAND	SYNFUELS/ETHANOL FROM CORN	SYN	BIOM	POST	0
13	ME	WALDO	SEARSPORT	SEARS ISLAND	PWR	COAL	PROP	89
14	ME	KNOX		ROCKLAND	PWR	FOSL	EXIST	0
15	ME	LINCOLN	WISCASSET	MASON	PWR	FOSL	EXIST	0
16	ME	LINCOLN		BRUNSWICK/TOPSHAM	PWR	HYD	PROP	81
17	ME	LINCOLN		MAINE YANKEE	PWR	NUKE	EXIST	0
18	ME	CUMBERLAND		BRUNSWICK	PWR	HYD	EXIST	0
19	ME	CUMBERLAND		CAPE	PWR	FOSL	EXIST	0
20	ME	CUMBERLAND		NORTH GORHAM	PWR	HYD	EXIST	0
21	ME	CUMBERLAND		PEAKS ISLAND	PWR	FOSL	EXIST	0
22	ME	CUMBERLAND	YARMOUTH	W F WYMAN	PWR	FOSL	EXIST	0
23	ME	CUMBERLAND	PORTLAND	PIPELINES TO CANADA	TRAN	OIL	EXIST	0
24	ME	CUMBERLAND	PORTLAND	PORT/MAX 70,000 DWT	TRAN	PORT	EXIST	0
25	ME	CUMBERLAND	YARMOUTH	COUSINS ISLAND	PWR	FOSL	PROP	0
26	ME	YORK		BAR MILLS	PWR	HYD	EXIST	0
27	ME	YORK		BONNY EAGLE	PWR	HYD	EXIST	0
28	ME	YORK		CATARACT	PWR	HYD	EXIST	0
29	ME	YORK		CONTINENTAL MILLS	PWR	HYD	EXIST	0
30	ME	YORK		SKELTON	PWR	HYD	EXIST	0
31	ME	YORK		WEST BUXTON	PWR	HYD	EXIST	0
32	ME	ROCKY COAST	6 SITES	TIDAL POWER	PWR	TIDE	PROP	0
33	ME	INLAND		LOWHEAD HYDRO	PWR	HYD	PROP	0
34	NH	ROCKINGHAM		DANIEL STREET	PWR	FOSL	EXIST	0
35	NH	ROCKINGHAM		SCHILLER	PWR	FOSL	EXIST	0
36	NH	ROCKINGHAM	NEWINGTON	NEWINGTON	PWR	FOSL	EXIST	0
37	NH	ROCKINGHAM		SEABROOK	PWR	NUKE	PROP	83
38	NH	ROCKINGHAM	NEWINGTON	ATC PETROLEUM	O/G	REFN	EXIST	0
39	NH	ROCKINGHAM		TAPCO GAS PIPE	TRAN	GAS	PROP	0
40	MA	ESSEX	NE MASS	ALGONQUIN GAS	TRAN	GAS	PROP	0
41	MA	ESSEX	LAWRENCE	LAWRENCE HYDRO	PWR	HYD	PROP	0
42	MA	ESSEX	METHUEN	LOWELL ST. DAM	PWR	HYD	PROP	0
43	MA	ESSEX		IPSWICH	PWR	FOSL	EXIST	0
44	MA	ESSEX	MARBLEHEAD	COMMERCE ST. 2	PWR	FOSL	EXIST	0
45	MA	ESSEX	MARBLEHEAD	WILKINS STATION	PWR	FOSL	EXIST	0
46	MA	ESSEX		GLOUCESTER	PWR	FOSL	EXIST	0
47	MA	ESSEX		NEWBURYPORT	PWR	FOSL	EXIST	0
48	MA	ESSEX	SALEM	SALEM HARBOR	PWR	FOSL	EXPAN	0
49	MA	ESSEX		LYNNWAY	PWR	FOSL	EXIST	0
50	MA	ESSEX	PEABODY	WATERS RIVER	PWR	FOSL	PROP	0
55	MA	ESSEX		WARREN ST.	PWR	FOSL	EXIST	0
60	MA	MIDDLESEX	EVERETT	DISTRIGAS OF MASS	O/G	LNG	PROP	0
65	MA	MIDDLESEX		LOWELL PAWTUCKET CANAL	PWR	HYD	PROP	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 37 concluded.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
70	MA MIDDLESEX		FRAMINGHAM	PWR	FOSL	EXIST	0
75	MA MIDDLESEX	EVERETT	MYSTIC	PWR	FOSL	EXIST	0
80	MA MIDDLESEX		BLACKSTONE STREET	PWR	FOSL	EXIST	0
85	MA MIDDLESEX		KENDALL SQUARE	PWR	FOSL	EXIST	0
90	MA MIDDLESEX		CHERRY STREET	PWR	FOSL	EXPAN	80
95	MA SUFFOLK	S BOSTON	L STREET	PWR	FOSL	EXIST	0
100	MA SUFFOLK	S BOSTON	NEW BOSTON	PWR	FOSL	EXIST	0
105	MA SUFFOLK	BOSTON	PORT/MAX 60.000 DWT	TRAN	PORT	EXIST	0
110	MA SUFFOLK		SYNFUELS/ETHANOL FROM CROPS	SYN	BIOM	POST	0
111	MA SUFFOLK	BOSTON	REFUSE TO ENERGY SYSTEM	SYN	BIOM	POST	0
115	MA SUFFOLK	BOSTON	LNG RECEIVING	O/G	LNG	EXIST	0
120	MA NORFOLK	N WEYMOUTH	EDGAR	PWR	FOSL	EXPAN	0
125	MA NORFOLK	WEYMOUTH	COAL GAS PLANT	SYN	COAL	PROP	89
130	MA NORFOLK		WEST MEDWAY	PWR	FOSL	EXIST	0
135	MA NORFOLK		ALLEN STREET	PWR	FOSL	EXIST	0
140	MA NORFOLK		POTTER STATION	PWR	FOSL	EXIST	0
145	MA PLYMOUTH		PILGRIM	PWR	NUKE	EXPAN	85
150	MA PLYMOUTH		WINETUXENT RIVER DAM	PWR	HYD	PROP	0
155	MA PLYMOUTH	EARCHAM	TREMONT MILL POND DAM	PWR	HYD	PROP	0
160	MA BARNSTABLE	SANDWICH	CANAL	PWR	FOSL	EXIST	0
165	MA BARNSTABLE	BARNSTABLE AIRPT	CREW CHANGE	O/G	BASE	EXIST	0
170	MA DUKES		OAK BLUFFS	PWR	FOSL	EXIST	0
175	MA DUKES		WEST TISBURY	PWR	FOSL	EXPAN	83
180	MA BRISTOL		CANNON STREET	PWR	FOSL	EXPAN	84
185	MA BRISTOL	SOMERSET	BRAYTON POINT	PWR	COAL	EXIST	0
186	MA BRISTOL	SOMERSET	BRAYTON POINT 3	PWR	COAL	EXPAN	82
190	MA BRISTOL	TAUNTON	CLEARY-FLOOD	PWR	FOSL	EXIST	0
200	MA BRISTOL		WEST WATER STREET	PWR	FOSL	EXIST	0
205	MA BRISTOL	SOMERSET	SOMERSET	PWR	FOSL	EXPAN	87
210	MA BRISTOL	SOMERSET	MONTAUP	PWR	FOSL	EXPAN	0
215	MA BRISTOL	FALL RIVER	EG/G SYNFUELS MED BTU GAS	SYN	COAL	PROP	0
220	MA BRISTOL	NEW BEDFORD	REFINERY	O/G	REFN	POST	0
225	MA BRISTOL	NEW BEDFORD	G/G EXPLORATION BASE	O/G	BASE	PROP	0
230	MA BRISTOL	FALL RIVER	NEW ENGLAND LNG	O/G	LNG	PROP	0
235	MA INLAND		LOWHEAD HYDRO	PWR	HYD	PROP	0
240	MA OCS	NO ATLANTIC	SALE 42	O/G	EXPL	EXIST	0
245	MA OCS	NO ATLANTIC	SALE 52	O/G	EXPL	PROP	82

[a] Key to computer generated list is located in Appendix.

REGION 5 - MID-ATLANTIC (RI,CT,NY,NJ,DE,MD,VA)

Power generation facilities, mostly oil-fueled, constitute the majority of energy facilities in the Mid-Atlantic coastal area. Some coal-fired power plants are projected for the New York area, the New Jersey coast, and the Baltimore area; while a few are already operating in Delaware, Maryland, and New Jersey. There are two coastal nuclear power plants in Connecticut, one in New York, two in New Jersey, one in Maryland, and one in Virginia's coastal zone. There are several proposed nuclear plants, although some of these have been discussed as switching to coal because of public opposition to nuclear power and difficulties in obtaining financing for construction. The proposed locations include one in Rhode Island, two on Long Island, New York, two in New Jersey, and one each in Delaware and Maryland. Demand for electric power in this region is projected to grow slightly, making the construction of new plants necessary; however, the urbanized character of most of this region will mean air quality and water quality requirements will be hard to meet.

The refinery capacity in the Mid-Atlantic is centered mostly in the Philadelphia and New Jersey areas, with some additional capacity in Baltimore, Virginia, Delaware, and Rhode Island. Crude oil for these refineries is delivered almost totally by tankers and barges, the majority of it being from foreign sources. Although several sites for proposed refineries have been discussed, the only currently active proposal in the area is the Hampton Roads facility in Portsmouth, Virginia.

Probably the biggest current issue in the Mid-Atlantic is coal transportation for export. The largest coal ports on the East Coast are at Baltimore, Newport News and Norfolk, Virginia, and all three are experiencing tremendous tie-ups with ships awaiting loading facilities. Numerous proposals to remedy the situation are being discussed, including a coal superport at Craney Island in Portsmouth, Virginia; a coal slurry pipeline to an offshore loading terminal in Chesapeake Bay; and additional docks at the existing ports with deeper dredging to allow larger ships into port.

OCS activities in both the Georges Banks-North Atlantic area and the Baltimore Canyon-Mid-Atlantic area are being supported mostly out of the Quonsett-Davisville facilities in Rhode Island. There is room for expansion at this port and it is not expected that any other major support facilities will be needed, unless very large finds are made. If the recent gas finds in the Baltimore Canyon area prove to be commercial, a pipeline is projected to one of four landfalls in New Jersey. Significant amounts of oil will probably be barged or tankered to port, unless, again, very large amounts make a pipeline more economically feasible. Several small ports have been promoting themselves as OCS support bases; however, without much more exploration activity, no new bases are expected.

Several new LNG facilities are postulated in the Mid-Atlantic area, but the terminal on Staten Island is the only active project at this time. Most projections expect limits on foreign importation of LNG, with the currently planned projects being either dropped or used as peak storage facilities, as is one facility on Staten Island. The Cove Point, Maryland facility, which is located only 10 miles from the Calvert Cliffs nuclear power plant, is the only operating LNG receiving terminal in the Mid-Atlantic.

The resources of the Mid-Atlantic include extensive barrier island systems, and the valuable estuaries of the Chesapeake Bay. These areas are used by large bird populations, as well as various species of fish and shellfish. The Chesapeake Bay area encompasses several FWS-identified Important Resource Problems (IRP's). Toxic contaminants, dredge spoils, municipal solid waste and sludge disposal are some of the threats to resources in the Mid-Atlantic. Other constraints for energy development include the limited availability of water, especially at low flow in the Delaware River, which inhibits the thermal absorption capacity in the river. Air quality is also a problem in this heavily urbanized section of the coast.

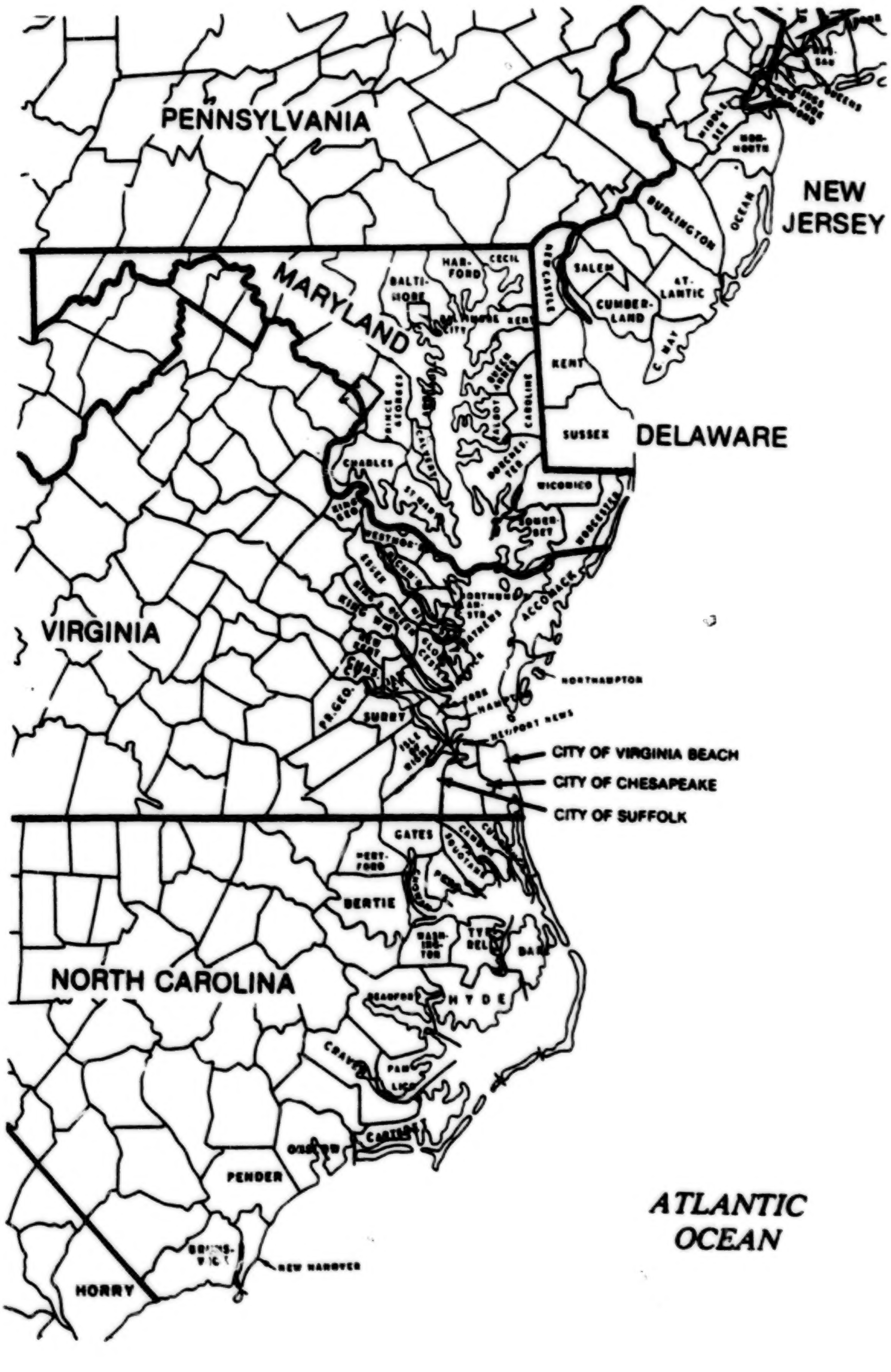


Figure 6. Coastal counties in the Mid-Atlantic States

Table 38. All coastal energy facilities in the Mid-Atlantic area.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
250	RI NEWPORT		JEPSON	PWR	FOSL	EXIST	0
255	RI NEWPORT		NEWPORT	PWR	FOSL	EXIST	0
260	RI NEWPORT		UNSITED	PWR	FOSL	PROP	82
265	RI NEWPORT	BRISTOL	ELDRED	PWR	FOSL	EXIST	0
270	RI NEWPORT	BLOCK ISLAND	WIND TURBINE	PWR	WIND	EXIST	0
275	RI NEWPORT	MIDDLETOWN	SPR	O/G	SPR	POST	0
280	RI NEWPORT	PORTSMOUTH	SPR	O/G	SPR	POST	0
285	RI NEWPORT	PRUDENCE ISLAND	LNG-TAPCO ALTERNATIVE	O/G	LNG	POST	0
290	RI PROVIDENCE	PROVIDENCE	MANCHESTER STREET	PWR	FOSL	EXIST	0
295	RI PROVIDENCE		SOUTH STREET	PWR	FOSL	EXIST	0
300	RI PROVIDENCE		NORTH SHOREHAM	PWR	FOSL	EXIST	0
305	RI PROVIDENCE	WOONSOCKET	PROVIDENCE	PWR	HYD	EXIST	0
310	RI PROVIDENCE	CRANSTON	SOLID WASTE/COGENERATION	PWR	WAST	EXIST	0
315	RI PROVIDENCE	EAST PROVIDENCE	MOBILOIL	O/G	REFN	EXIST	0
320	RI KENT	QUONSETT-DAVISVILLE	40-60 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
325	RI KENT	QUONSETT-DAVISVILLE	PLATFORM FABRICATION	O/G	OCSR	POST	0
330	RI WASHINGTON	BRADFORD	WESTERLY LNG	O/G	LNG	POST	0
335	RI WASHINGTON	CHARLESTOWN	NEP 1/2	PWR	NUKE	PROP	0
340	CT NEW LONDON		GILMAN	PWR	HYD	EXIST	0
345	CT NEW LONDON	UNCASVILLE	MONTVILLE	PWR	FOSL	EXIST	0
350	CT NEW LONDON		TAFTVILLE	PWR	HYD	EXIST	0
355	CT NEW LONDON		TUNNEL	PWR	HYD	EXIST	0
360	CT NEW LONDON	HARTFORD	MILLSTONE	PWR	NUKE	EXPAN	86
365	CT NEW LONDON	USN BASE	NEW LONDON	PWR	FOSL	EXIST	0
370	CT NEW LONDON	NORWICH	2ND STREET	PWR	HYD	EXIST	0
375	CT NEW LONDON	NORWICH	NORTH MAIN	PWR	FOSL	EXIST	0
380	CT NEW LONDON	NORWICH	OCCUM	PWR	HYD	EXIST	0
385	CT NEW LONDON		10TH STREET	PWR	HYD	EXIST	0
390	CT MIDDLESEX		HADDAM NECK	PWR	NUKE	EXIST	0
395	CT MIDDLESEX	MIDDLETOWN	MIDDLETOWN	PWR	FOSL	EXIST	0
400	CT NEW HAVEN		BRANFORD	PWR	FOSL	EXIST	0
405	CT NEW HAVEN	MILFORD	DEVON	PWR	FOSL	EXIST	0
410	CT NEW HAVEN		ENFIELD	PWR	FOSL	EXIST	0
415	CT NEW HAVEN		SHEPAUG	PWR	HYD	EXIST	0
420	CT NEW HAVEN	NEW HAVEN	ENGLISH	PWR	FOSL	EXIST	0
425	CT NEW HAVEN	NEW HAVEN	NEW HAVEN HARBOR	PWR	FOSL	EXIST	0
430	CT NEW HAVEN	WALLINGFORD	PIERCE	PWR	COAL	EXIST	0
435	CT FAIRFIELD		COS COB	PWR	FOSL	EXIST	0
440	CT FAIRFIELD	SO NORWALK	NORWALK HARBOR	PWR	FOSL	EXIST	0
445	CT FAIRFIELD		STEVENSON	PWR	HYD	EXIST	0
450	CT FAIRFIELD		SOUTH NORWALK	PWR	FOSL	EXIST	0
455	CT FAIRFIELD	BRIDGEPORT	BRIDGEPORT HARBOR	PWR	FOSL	EXIST	0
460	CT FAIRFIELD	BRIDGEPORT	STEEL POINT	PWR	FOSL	EXIST	0
465	NY WESTCHESTER		INDIAN POINT	PWR	NUKE	EXIST	0
470	NY WESTCHESTER		INDIAN POINT	PWR	FOSL	EXIST	0
475	NY SUFFOLK		JAMESPORT	PWR	NUKE	PROP	89
480	NY SUFFOLK		GREENPORT	PWR	FOSL	EXIST	0
485	NY SUFFOLK		EAST HAMPTON	PWR	FOSL	EXIST	0
490	NY SUFFOLK		MONTAUK	PWR	FOSL	EXIST	0
495	NY SUFFOLK	PORT JEFFERSON	PORT JEFFERSON	PWR	FOSL	EXIST	0
496	NY SUFFOLK	PORT JEFFERSON	PORT JEFFERSON 3/4	PWR	COAL	EXPAN	84
500	NY SUFFOLK	NORTHPORT	NORTHPORT	PWR	FOSL	EXIST	0
505	NY SUFFOLK		SHOREHAM	PWR	NUKE	PROP	83
510	NY SUFFOLK		SHOREHAM	PWR	FOSL	EXIST	0
515	NY SUFFOLK		SOUTHAMPTON	PWR	FOSL	EXIST	0
520	NY SUFFOLK		SOUTHOLD	PWR	FOSL	EXIST	0
525	NY SUFFOLK	CENTERREACH	WEST BABYLON	PWR	FOSL	EXIST	0
530	NY SUFFOLK	CENTERREACH	HOLBROOK	PWR	FOSL	EXIST	0
535	NY NASSAU		ROCKVILLE	PWR	FOSL	EXIST	0
540	NY NASSAU		FREEPORT 1/2	PWR	FOSL	EXIST	0
545	NY NASSAU	ISLAND PARK	BARRETT	PWR	FOSL	EXIST	0
550	NY NASSAU	GLENWOOD	GLENWOOD	PWR	WAST	EXIST	0
555	NY NASSAU		MITCHELL GARDENS	PWR	WAST	EXIST	0
560	NY QUEENS	NYC	ASTORIA	PWR	FOSL	EXIST	0
565	NY QUEENS	NYC	RAVENSWOOD	PWR	FOSL	EXIST	0
566	NY QUEENS	NYC	RAVENSWOOD 3	PWR	COAL	PROP	81
570	NY QUEENS	NYC	FAR ROCKAWAY	PWR	FOSL	EXIST	0
575	NY KINGS	NYC	GOWANUS	PWR	FOSL	EXIST	0
580	NY KINGS	NYC	HUDSON AVE	PWR	FOSL	EXIST	0
585	NY KINGS	NYC	KENT AVE	PWR	FOSL	EXIST	0
590	NY KINGS	NYC	NARROWS	PWR	FOSL	EXIST	0
595	NY NEW YORK	MANHATTAN	SYNFUELS/FUEL FROM SLUDGE	SYN	BIOM	PROP	0
600	NY NEW YORK	NYC	EAST RIVER	PWR	FOSL	EXIST	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 38 continued.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
605	NY NEW YORK	NYC	WATERSIDE	PWR	FOSL	EXIST	0
610	NY NEW YORK	NYC	59TH STREET	PWR	FOSL	EXIST	0
615	NY NEW YORK	NYC	74TH STREET	PWR	FOSL	EXIST	0
620	NY NEW YORK	NEW YORK HARBOR	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
625	NY NEW YORK	NY OFFSHORE	ALCOHOL FROM WASTE	SYN	BIOM	PROP	0
630	NY RICHMOND	STATEN ISLAND	ARTHUR KILL	PWR	FOSL	EXIST	0
631	NY RICHMOND	STATEN ISLAND	ARTHUR KILL 2/3	PWR	COAL	PROP	82
635	NY RICHMOND		FOSSIL	PWR	COAL	PROP	89
640	NY RICHMOND	STATEN ISLAND	ENERGY TERMINAL SERVICE	O/G	LNG	PROP	0
645	NY RICHMOND	ROSSVILLE, STATEN IS	TEXAS EASTERN CRYOGENICS	O/G	LNG	PROP	0
650	NY RICHMOND	STATEN ISLAND	LNG-PEAKING FACILITY	O/G	LNG	EXIST	0
655	NY RICHMOND	STATEN ISLAND	FRESH KILL LANDFILL	SYN	BIOM	PROP	0
656	NY RICHMOND	STATEN ISLAND	LANDFILL GAS RECOVERY	SYN	BIOM	POST	0
660	NJ BERGEN		BERGEN	PWR	FOSL	EXIST	0
665	NJ HUDSON		BAYONNE	PWR	FOSL	EXIST	0
670	NJ HUDSON		HUDSON	PWR	FOSL	EXIST	0
675	NJ HUDSON	KEARNY	KEARNY	PWR	FOSL	EXIST	0
680	NJ ESSEX	NEWARK	ESSEX	PWR	FOSL	EXIST	0
685	NJ UNION	UNION	LINDEN	PWR	FOSL	EXIST	0
690	NJ UNION	LINDEN	EXXON	O/G	REFN	EXIST	0
695	NJ MIDDLESEX	NEW BRUNSWICK	EDISON	PWR	FOSL	EXIST	0
700	NJ MIDDLESEX	SEAWAREN	SEAWAREN	PWR	FOSL	EXIST	0
705	NJ MIDDLESEX	SOUTH RIVER	WHITEHEAD	PWR	FOSL	EXIST	0
710	NJ MIDDLESEX	NEW BRUNSWICK	WERNER	PWR	FOSL	EXIST	0
715	NJ MIDDLESEX	SAYREVILLE	SAYREVILLE	PWR	FOSL	EXIST	0
720	NJ MIDDLESEX	PERTH AMBOY	CHEVRON	O/G	REFN	EXIST	0
725	NJ MIDDLESEX	PORT READING	AMERADA HESS CORP	O/G	REFN	EXIST	0
726	NJ MIDDLESEX		PLASTIC/LEAF ALT FUEL	SYN	BIOM	PROP	82
730	NJ MONMOUTH	SANDY HOOK	WIND POWER	PWR	WIND	PROP	0
735	NJ MONMOUTH	ASBURY PARK	OCS GAS PIPE	TRAN	PIPE	POST	0
740	NJ OCEAN	DOVER TOWNSHIP	SOLID WASTE	PWR	WAST	PROP	0
745	NJ OCEAN	LITTLE EGG INLET	ATLANTIC	PWR	COAL	POST	0
750	NJ OCEAN		OYSTER CREEK	PWR	NUKE	EXIST	0
755	NJ OCEAN		FORKED RIVER(NUKE OR COAL)	PWR	NUKE	PROP	86
760	NJ OCEAN	ISLAND BEACH	OCS GAS PIPE	TRAN	PIPE	POST	0
765	NJ ATLANTIC		MISSOURI AVE	PWR	FOSL	EXIST	0
770	NJ ATLANTIC	UNSITED	UNSITED	PWR	FOSL	PROP	82
775	NJ ATLANTIC	ATLANTIC CITY	PETROLEUM HELICOPTERS	O/G	BASE	EXIST	0
780	NJ ATLANTIC	ATLANTIC CITY	OCS GAS PIPE	TRAN	PIPE	POST	0
785	NJ CAPE MAY	BASLEYS POINT	ENGLAND	PWR	COAL	EXIST	0
790	NJ CAPE MAY		MIDDLE	PWR	FOSL	EXIST	0
795	NJ CAPE MAY	SEA ISLE CITY	OCS GAS PIPE	TRAN	PIPE	POST	0
800	NJ CUMBERLAND		HOWARD DOWN	PWR	FOSL	EXIST	0
805	NJ CUMBERLAND		WEST	PWR	FOSL	EXIST	0
810	NJ CUMBERLAND		CARLLS CORNER	PWR	FOSL	EXIST	0
815	NJ CUMBERLAND		CEDAR	PWR	FOSL	EXIST	0
820	NJ SALEM	DEEPWATER	DEEPWATER	PWR	FOSL	EXIST	0
825	NJ SALEM		DEEPWATER	PWR	COAL	PROP	87
830	NJ SALEM	DELAWARE RIVER	SALEM	PWR	NUKE	EXPAN	83
835	NJ SALEM	DELAWARE RIVER	HOPE CREEK	PWR	NUKE	PROP	84
840	NJ OCS	MID-ATLANTIC	SALES 40/49	O/G	EXPL	EXIST	0
845	NJ OCS	MID-ATLANTIC	SALE 59	O/G	EXPL	PROP	81
850	DE NEW CASTLE		CHRISTIANA	PWR	FOSL	EXIST	0
855	DE NEW CASTLE	DELAWARE CITY	DELAWARE CITY	PWR	FOSL	EXIST	0
860	DE NEW CASTLE	EDGEMOOR	EDGEMOOR	PWR	FOSL	EXPAN	0
865	DE NEW CASTLE		MADISON STREET	PWR	FOSL	EXIST	0
870	DE NEW CASTLE		WEST SUBSTATION	PWR	FOSL	EXIST	0
875	DE NEW CASTLE	DELAWARE CITY	GETTY OIL	O/G	REFN	EXIST	0
880	DE NEW CASTLE	MIDDLETOWN	SUMMIT POWER	PWR	NUKE	PROP	0
885	DE NEW CASTLE	WILMINGTON	PIGEON POINT SOLID WASTE	SYN	BIOM	EXIST	0
890	DE KENT		KENT	PWR	FOSL	EXIST	0
895	DE KENT	DOVER	MCKEE RUN	PWR	FOSL	EXIST	0
900	DE SUSSEX	MILLSBORO	INDIAN RIVER	PWR	COAL	EXPAN	80
905	DE SUSSEX		LEWES	PWR	FOSL	EXIST	0
910	DE SUSSEX		SEAFORD	PWR	FOSL	EXIST	0
915	DE SUSSEX	LEWES	OCS SUPPORT	O/G	BASE	POST	0
920	DE KENT	BIG STONE BEACH/BAY	POTENTIAL COAL EXPORT TERMINAL	TRAN	COAL	POST	0
925	MD DELMARVA PENN.		SYNFUELS/ETHANOL FROM CROPS	SYN	BIOM	POST	0
930	MD WORCESTER		BERLIN	PWR	FOSL	EXIST	0
935	MD SOMERSET		CRISFIELD	PWR	FOSL	EXIST	0
940	MD SOMERSET	CRISFIELD	GEOTHERMAL EXPLORATION	OTHR	GEO	EXIST	0
945	MD SOMERSET	CRISFIELD	DEEP WATER PORT	TRAN	DPRT	POST	0
950	MD DORCHESTER	VIENNA	VIENNA	PWR	FOSL	EXIST	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 38 concluded.

No.	State / county		City / location	Facility name / description	Type	Code[a]	Status	Year
955	MD	DORCHESTER	VIENNA	VIENNA	PWR	COAL	PROP	87
960	MD	TALBOT		EASTON	PWR	FOSL	EXPAN	86
961	MD	CAROLINE	FEDERALSBURG	ETHANOL DISTILLERY	SYN	BIOM	PROP	81
965	MD	CECIL		CONOWINGO	PWR	HYD	EXIST	0
970	MD	HARFORD		PERRYMAN	PWR	FOSL	EXIST	0
975	MD	BALTIMORE	BALTIMORE	CRANE	PWR	FOSL	EXIST	0
980	MD	BALTIMORE	BALTIMORE	GOULD STREET	PWR	FOSL	EXIST	0
985	MD	BALTIMORE	BALTIMORE	NOTCH CLIFF	PWR	FOSL	EXIST	0
990	MD	BALTIMORE	BALTIMORE	PHILADELPHIA RD	PWR	FOSL	EXIST	0
995	MD	BALTIMORE	BALTIMORE	RIVERSIDE	PWR	FOSL	EXIST	0
1000	MD	BALTIMORE	BALTIMORE	WESTPORT	PWR	FOSL	EXIST	0
1001	MD	BALTIMORE	BALTIMORE	ETHANOL FROM CORN/BREWERY	SYN	BIOM	PROP	0
1002	MD	BALTIMORE	BALTIMORE	SNG FROM WASTE/COAL	SYN	BIOM	PROP	86
1005	MD	BALTIMORE	UNSITED	UNSITED	PWR	NUKE	PROP	86
1010	MD	BALTIMORE	UNSITED	UNSITED	PWR	COAL	PROP	87
1011	MD	BALTIMORE	BALTIMORE	ETHANOL FROM CORN/CELLULOSE	SYN	BIOM	PROP	0
1015	MD	BALTIMORE	BALTIMORE	PORT/MAX 35,000 DWT	TRAN	PORT	EXIST	0
1020	MD	BALTIMORE	BALTIMORE	AMOCO OIL	O/G	REFN	EXIST	0
1025	MD	BALTIMORE	BALTIMORE	CHEVRON	O/G	REFN	EXIST	0
1030	MD	BALTIMORE	CURTIS BAY	CHESSIE COAL TERM/B-O RR	TRAN	COAL	EXIST	0
1035	MD	BALTIMORE	CANTON PIER	CONSOLIDATED RR	TRAN	COAL	EXIST	0
1040	MD	BALTIMORE	BALTIMORE	ISLAND CREEK COAL CO	TRAN	COAL	PROP	0
1045	MD	ANN ARUNDEL	BALTIMORE	WAGNER	PWR	FOSL	EXIST	0
1046	MD	ANNE ARUNDEL	MARLEY NECK	SOROS/COAL EXPORT PIER	TRAN	COAL	PROP	85
1050	MD	ANN ARUNDEL	BALTIMORE	BRANDON SHORES	PWR	COAL	PROP	84
1055	MD	CALVERT		CALVERT CLIFFS	PWR	NUKE	EXIST	0
1060	MD	CALVERT	COVE POINT	COLUMBIA LNG	O/G	LNG	EXIST	0
1065	MD	ST MARYS		OIL STORAGE	TRAN	OIL	PROP	0
1070	MD	CHARLES	NEWBURG	MORGANTOWN	PWR	COAL	EXIST	0
1075	MD	PRINCE GEORGES	AQUASCO	CHALK POINT	PWR	COAL	EXPAN	81
1080	MD	CHESAPEAKE BAY		CHANNEL DEEPENING BY COE	TRAN	DRDG	PROP	88
1085	VA	ACCOMACK		TASLEY	PWR	FOSL	EXIST	0
1090	VA	ACCOMACK		TANGIER	PWR	FOSL	EXIST	0
1095	VA	NORTHAMPTON		BAYVIEW	PWR	FOSL	EXIST	0
1100	VA	NORTHAMPTON		CAPE CHARLES	PWR	FOSL	EXIST	0
1105	VA	RICHMOND		NORTHERN NECK	PWR	FOSL	EXIST	0
1110	VA	YORK	YORKTOWN	YORKTOWN	PWR	FOSL	EXIST	0
1112	VA	YORK		WASTE/TO/ENERGY	SYN	BIOM	POST	0
1115	VA	YORK	USN	NORFOLK NAVAL BASE	PWR	FOSL	EXIST	0
1120	VA	YORK	YORKTOWN	AMOCO OIL	O/G	REFN	EXIST	0
1125	VA	NEWPORT NEWS	NEWPORT NEWS	CHESAPEAKE/OHIO RR (2 PIERS)	TRAN	COAL	EXIST	0
1126	VA	NEWPORT NEWS	NEWPORT NEWS	MASSEY COAL EXPORT PIER	TRAN	COAL	PROP	82
1130	VA	NEWPORT NEWS	HAMPTON ROADS	PORT/MAX 40,000 DWT	TRAN	PORT	EXIST	0
1135	VA	SURRY		SURRY	PWR	NUKE	EXIST	0
1140	VA	PORTSMOUTH		PORTSMOUTH	PWR	FOSL	EXIST	0
1142	VA	PORTSMOUTH	PORTSMOUTH	REFUSE-DERIVED FUEL PLANT	SYN	BIOM	PROP	85
1145	VA	PORTSMOUTH	PORTSMOUTH	HAMPTON ROADS ENERGY CO	O/G	REFN	PROP	82
1150	VA	PORTSMOUTH	CRANEY ISLAND	COAL SUPERPORT	TRAN	COAL	PROP	0
1155	VA	CHESAPEAKE	CHESAPEAKE	SWANN OIL	O/G	REFN	POST	0
1160	VA	NORFOLK	LAMBERTS POINT	NORFOLK/WESTERN RR(2)	TRAN	COAL	EXIST	0
1165	VA	CHESAPEAKE BAY	DEEPWATER PORT	ENERGY CITY PROPOSAL	TRAN	DPRT	POST	0

[a] Key to computer generated list is located in Appendix.

REGION 4 - SOUTH ATLANTIC (NC,SC,GA,FL)

Power generation facilities make up most of the existing coastal energy development in the South Atlantic area. While the majority of the power plants are oil fueled, there is a coal-fired plant in Wilmington, North Carolina, and four in South Carolina. There are nuclear plants located in Southport, North Carolina; Fort Pierce, Florida; and Florida City, Florida. While the southeastern region is expected to grow slightly in power demand, very few new plants are in the planning stages. A coal-fired plant is projected for Berkeley county, near Charleston, South Carolina, and a few expansions of existing plants are planned in Georgetown, South Carolina (coal); Titusville, Florida (oil); and Fort Pierce, Florida (nuclear). This deficiency may be made up by plans for facilities in inland areas, and it may also reflect increasing difficulty in siting in coastal areas, because of public opposition to siting in pristine areas, with crowding and air quality problems in already developed areas. The Corps of Engineers Hydropower Inventory has identified potential sites for low head hydropower in North and South Carolina and Northern Georgia. The Cooper River rediversion has significant potential impacts both for Charleston Harbor and the Santee River, where the water used to flow and will be restored.

Oil and gas activities are clustered in only a few locations. There are refineries in Wilmington, North Carolina and Savannah, Georgia, supplied by tankers and barges primarily with foreign crude. New refineries are proposed for Morehead City, and Wilmington in North Carolina; Georgetown, South Carolina; and Savannah and Brunswick, Georgia, although it is expected that not all are likely to be built, partially because of the oil supply and permitting delay problems mentioned in Section 2.3 on Refineries.

The OCS tracts being leased for oil and gas development range all along the coast from near Jacksonville, Florida to North Carolina. OCS support activities are currently centered in Brunswick and Savannah, Georgia, and Jacksonville, Florida, with support bases postulated for Morehead City and Wilmington, North Carolina; Charleston and Georgetown, South Carolina, if exploration activities are stepped up in those areas. However, the preference of the oil industry is to use existing bases if at all possible, rather than a multitude of new ones; although the distances involved may result in more bases if exploration activities become more intensive than they currently are. OCS-related development has the potential for the greatest impact in the South Atlantic area, if substantial commercial finds are developed, by requiring some additional refining and processing capacity in the area.

The topography of the South Atlantic region includes a relatively flat coastal plain with extensive barrier island systems, coastal wetlands, marshes and estuaries. The Sea Islands of Georgia, many of which are managed for natural values, are also a valuable resource of the area. The beaches in the South Atlantic attract many tourists, as do the recreational fisheries. The commercial fisheries, shrimp, blue crab, menhaden and reef fish, provide about 6% of the nation's fisheries in terms of weight and value (Bureau of Land Management, 1980b). Most of the South Atlantic coastline is sparcely populated with inaccessible swamps, forests, and wetland systems, except for the scattered urban areas where most existing energy development is located.

Water availability at low flow may be a major constraint to energy development, especially in Florida and North Carolina. This factor may require more coastal siting in the future because of the need for ocean water for cooling. As much of the area is currently dependent on oil and gas for power, the projected switch to coal may require much new infrastructure development for coal transport. Coal burning will also increase air quality problems and may cause some delay or extra investment for scrubbing technology.

North and South Carolina and Georgia generally encourage energy development as a means of economic development in their poorer areas. However, some environmental advocates claim that Georgia's lack of access to Coastal Energy Impact Program (CEIP) funding from the Office of Coastal Zone Management (OCZM) has limited that state's ability to plan to mitigate the impacts of such development. Florida is the only state in this area which is committed to a significant advance planning program, with active citizen participants, who exhibit a considerable environmentalist perspective.

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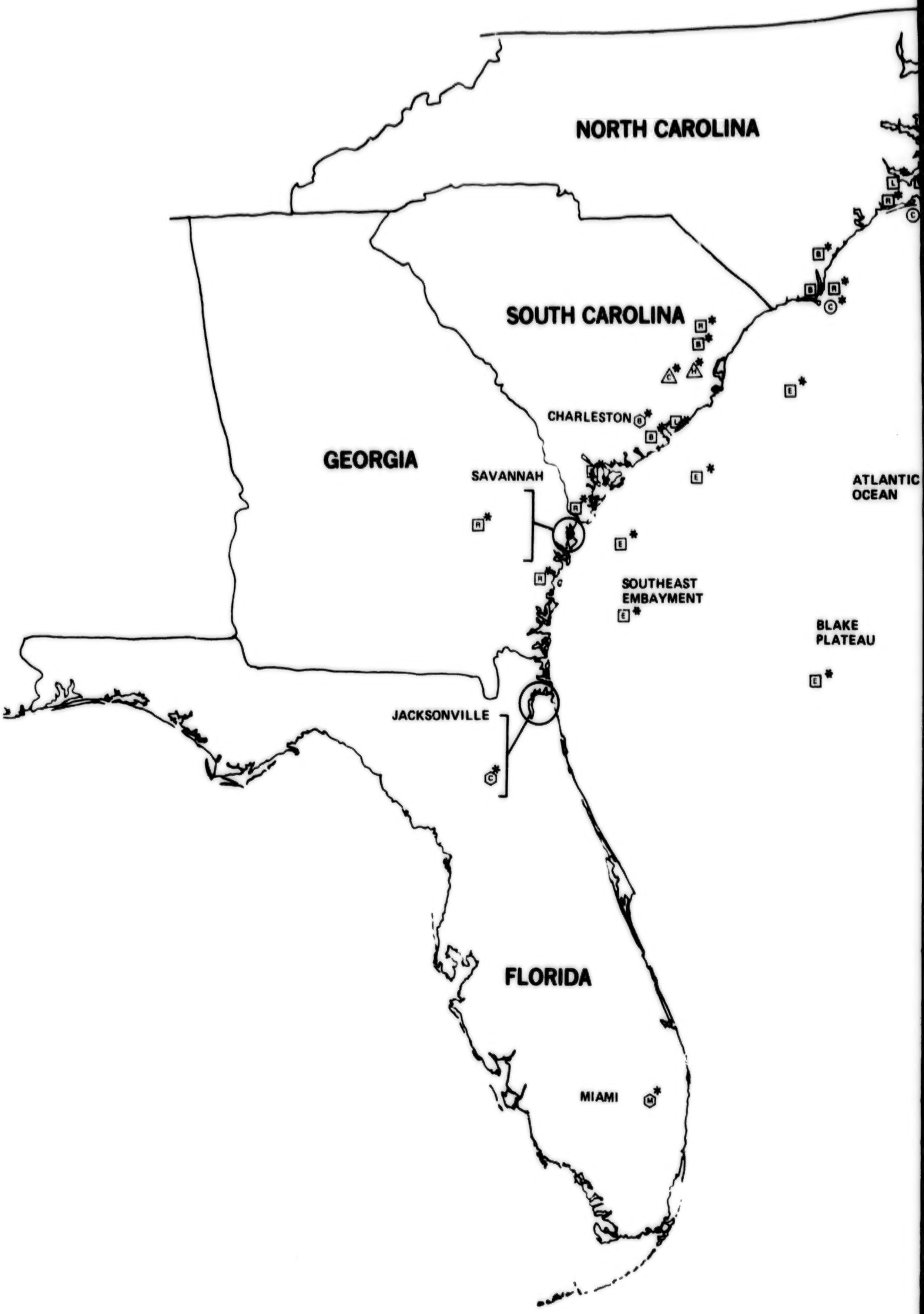
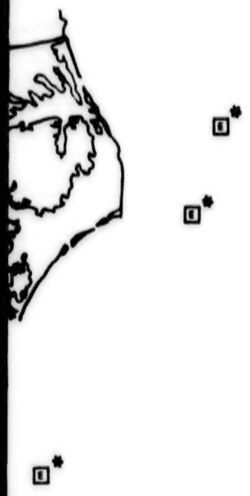

NORTH CAROLINA
SOUTH CAROLINA
GEORGIA
CHARLESTON
SAVANNAH
ATLANTIC OCEAN
SOUTHEAST EMBAYMENT
BLAKE PLATEAU
JACKSONVILLE
FLORIDA
MIAMI



LEGEND

OIL AND GAS

☐* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○* = PROPOSED

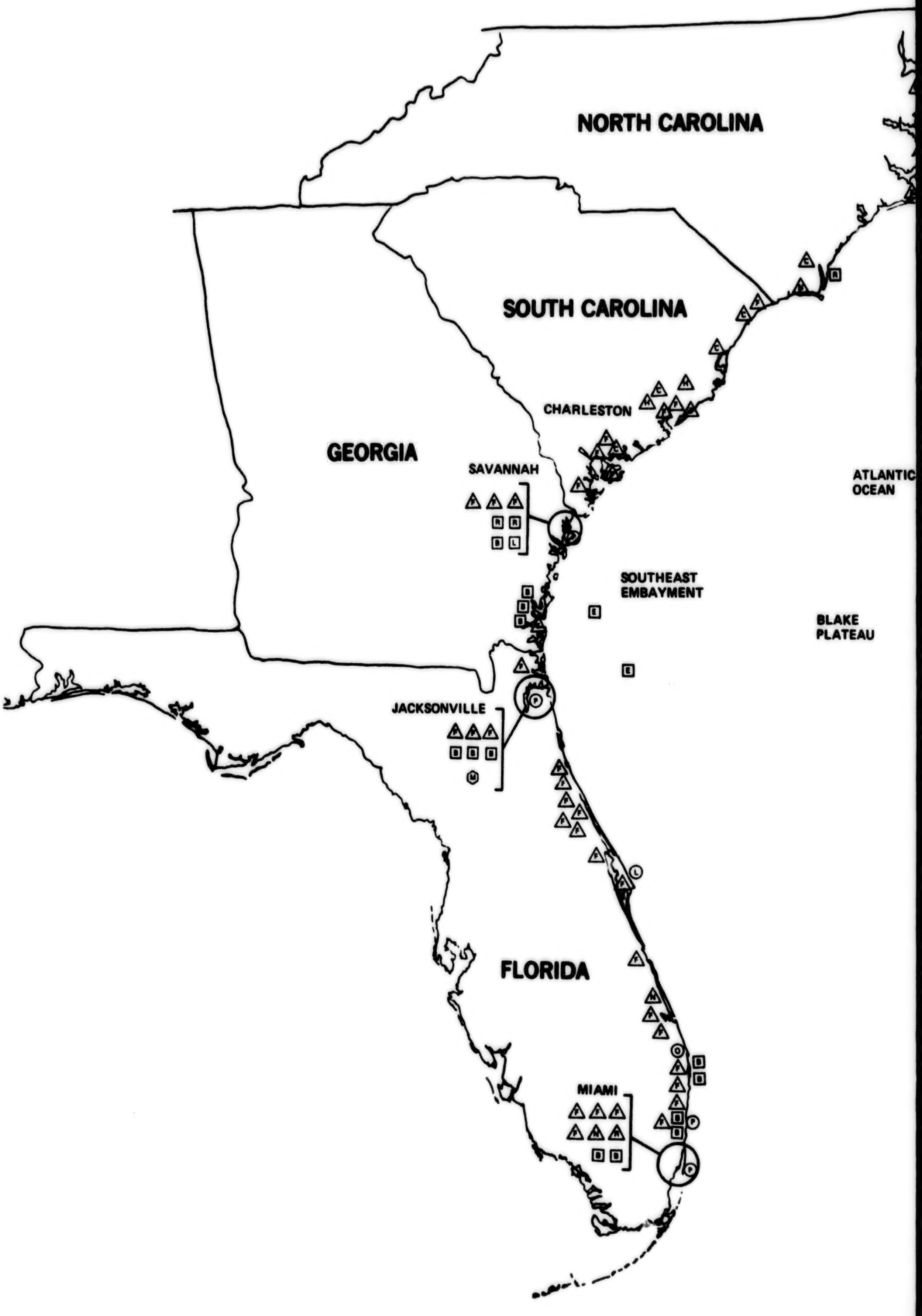
L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

MAP 4
Proposed and Postulated Coastal Energy Development in the South Atlantic


NORTH CAROLINA
SOUTH CAROLINA
CHARLESTON
GEORGIA
SAVANNAH
ATLANTIC
OCEAN
SOUTHEAST
EMBAYMENT
BLAKE
PLATEAU
JACKSONVILLE
FLORIDA
MIAMI

LEGEND

OIL AND GAS

□ = EXISTING

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

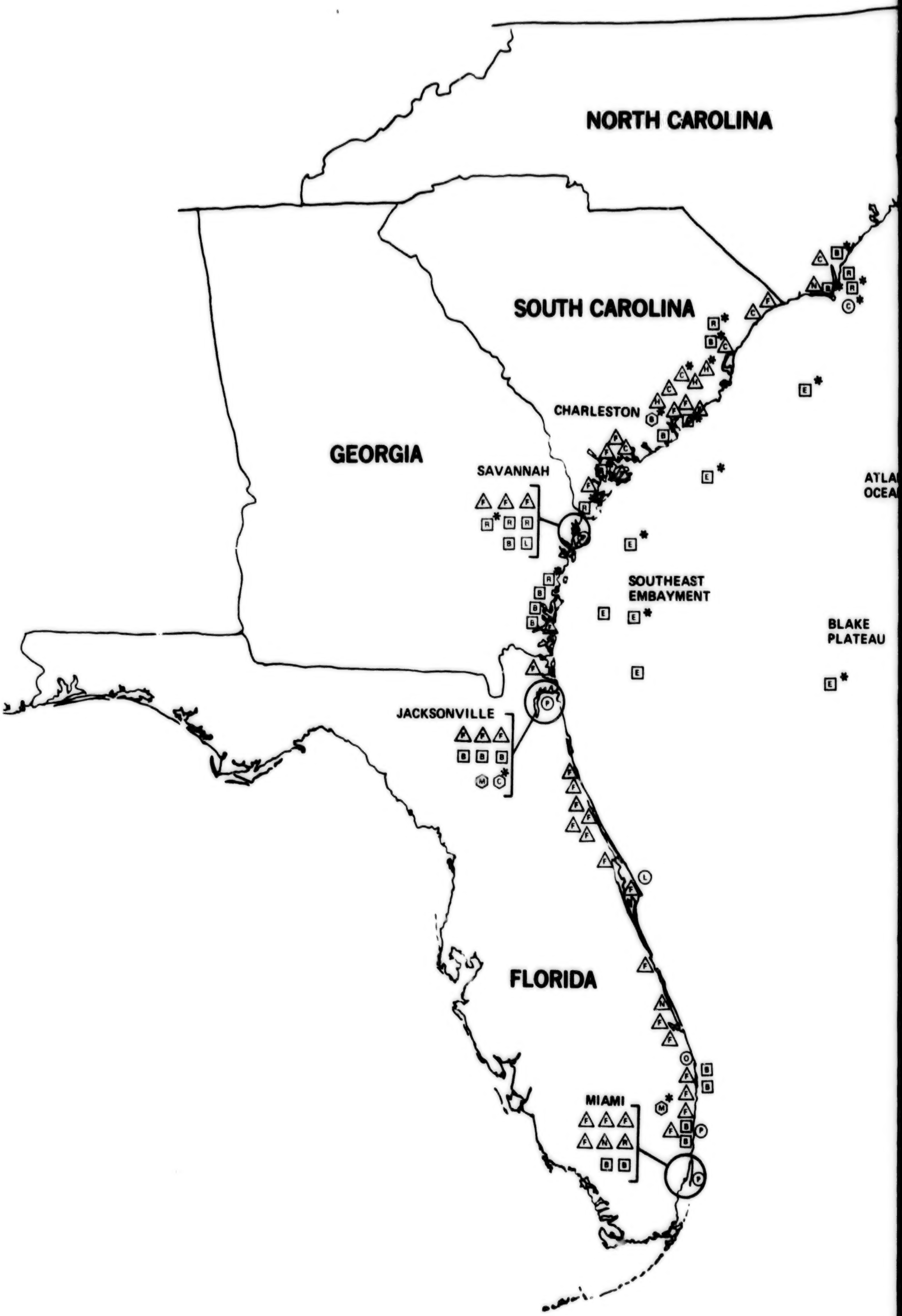
L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

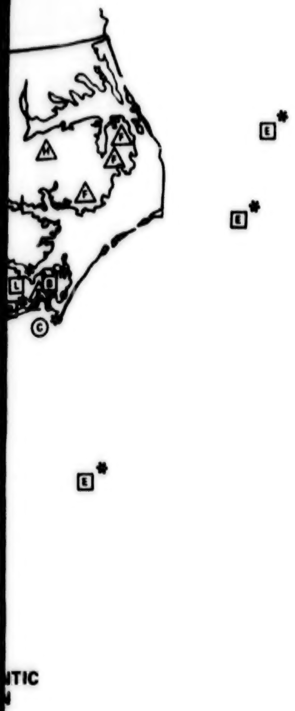
OTHER

⬡ = EXISTING

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

MAP 5
Existing Coastal Energy Development in the South Atlantic


NORTH CAROLINA
SOUTH CAROLINA
CHARLESTON
GEORGIA
SAVANNAH
ATLA
OCEA
SOUTHEAST
EMBAYMENT
BLAKE
PLATEAU
JACKSONVILLE
FLORIDA
MIAMI



LEGEND

OIL AND GAS

□ = EXISTING

□* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ = EXISTING

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

MAP 6

Total Coastal Energy Development if All Proposed and Postulated Projects Occur in the South Atlantic

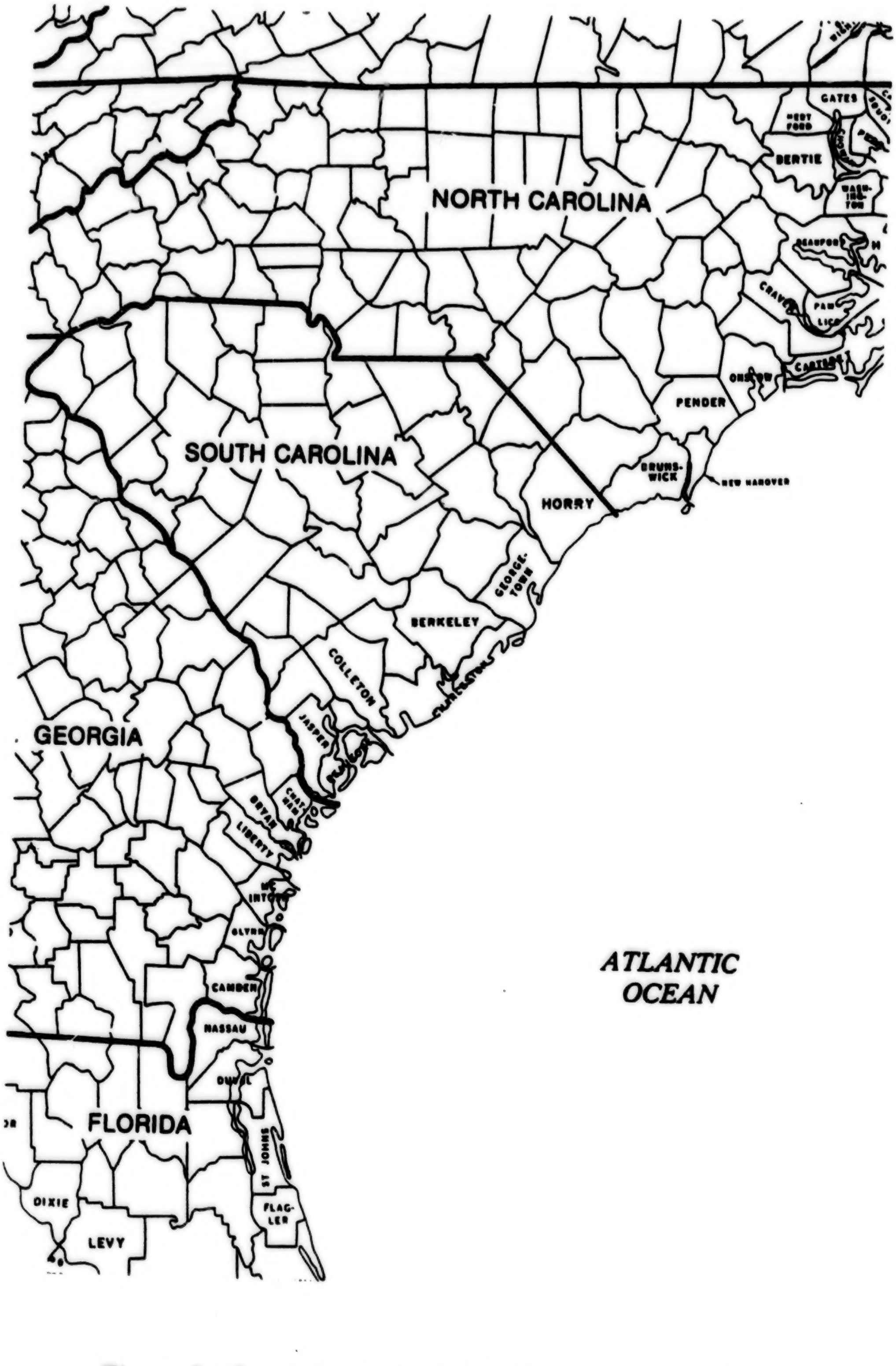


Figure 7. Coastal counties in the Southeastern States.

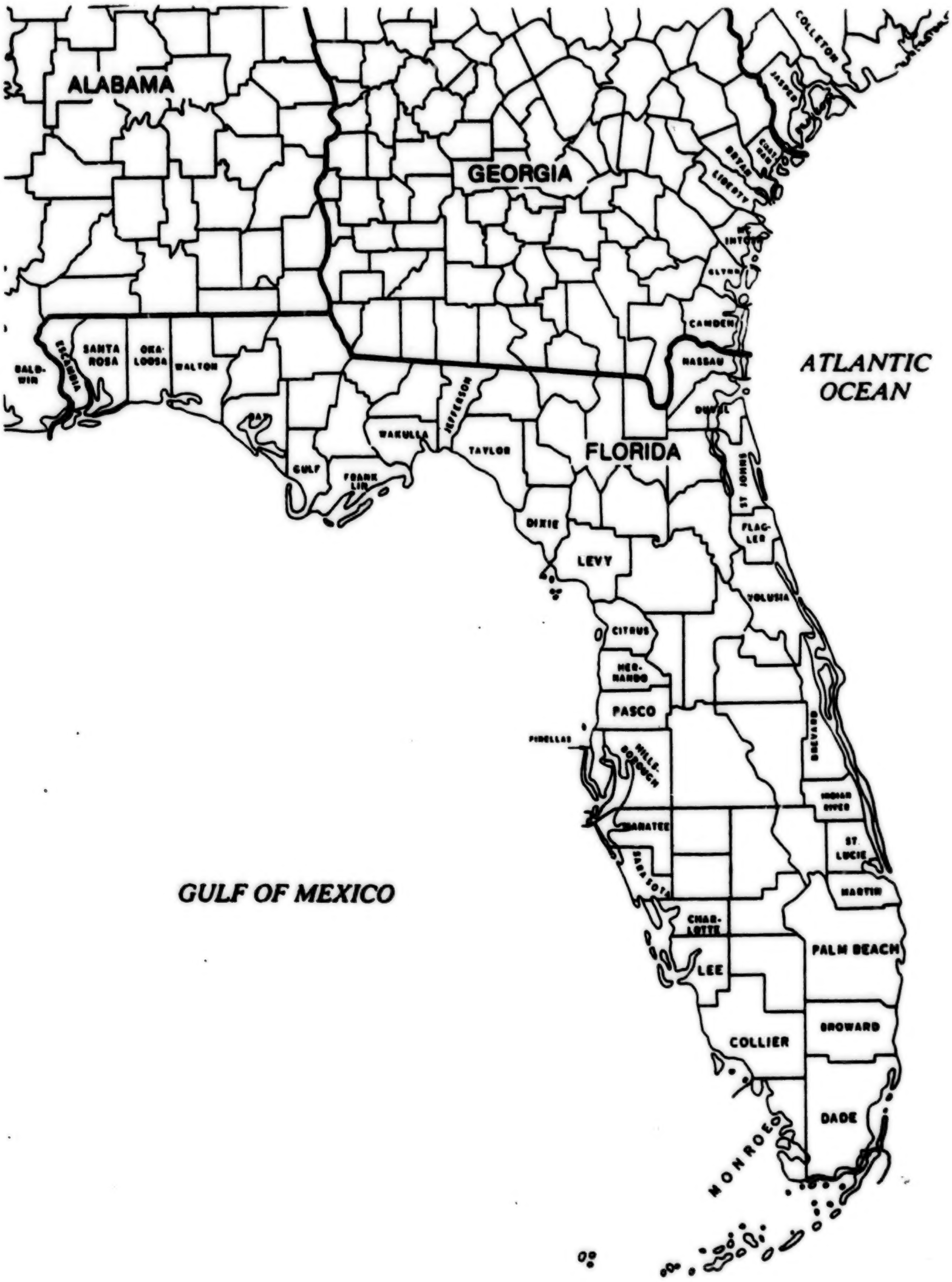


Figure 8. Coastal counties in Florida.

Table 39. All coastal energy facilities in the South Atlantic area.

No.	State / county		City / location	Facility name / description	Type	Code[a]	Status	Year
1170	NC	WASHINGTON		WALTERS	PWR	HYD	EXIST	0
1175	NC	DARE		BUXTON	PWR	FOSL	EXIST	0
1180	NC	DARE		KITTY HAWK	PWR	FOSL	EXIST	0
1185	NC	HYDE		HYDE	PWR	FOSL	EXIST	0
1190	NC	CARTERET	MOREHEAD CITY	OCS SUPPORT	O/G	BASE	PROP	0
1195	NC	CARTERET		MOREHEAD	PWR	FOSL	EXIST	0
1200	NC	CARTERET	MOREHEAD CITY	CAROLINA REF/DIST	O/G	REFN	PROP	0
1205	NC	CARTERET		LNG	O/G	LNG	POST	0
1210	NC	CARTERET	MOREHEAD CITY	COAL EXPORT TERMINAL	TRAN	COAL	POST	0
1215	NC	NEW HANOVER		OCS SUPPORT	O/G	BASE	PROP	0
1220	NC	NEW HANOVER	WILMINGTON	SUTTON	PWR	COAL	EXIST	0
1225	NC	NEW HANOVER	WILMINGTON	NEW HANOVER	O/G	REFN	EXIST	0
1230	NC	NEW HANOVER	BELVILLE	BRUNSWICK ENERGY	O/G	REFN	PROP	83
1235	NC	NEW HANOVER	WILMINGTON	COAL EXPORT TERMINAL	TRAN	COAL	POST	0
1240	NC	BRUNSWICK	SOUTHPORT	OCS SUPPORT	O/G	BASE	PROP	0
1245	NC	BRUNSWICK	SOUTHPORT	BRUNSWICK	PWR	NUKE	EXIST	0
1249	NC	COASTAL ZONE		PEAT.FUELED POWER PLANT	PWR	MISC	POST	0
1250	NC	OCS	SOUTH ATLANTIC	OCS LEASE SALE 56	O/G	EXPL	PROP	81
1255	SC	HORRY		GRAINGER	PWR	COAL	EXIST	0
1260	SC	HORRY		MYRTLE BEACH	PWR	FOSL	EXIST	0
1265	SC	GEORGETOWN	GEORGETOWN	WINYAH	PWR	COAL	EXPAN	81
1270	SC	GEORGETOWN	GEORGETOWN	CAROLINA REF/DIST	O/G	REFN	PROP	0
1275	SC	GEORGETOWN	GEORGETOWN	OCS SUPPORT	O/G	BASE	PROP	0
1280	SC	CHARLESTON		SYN/REFUSE TO SUPPLEMENT COAL	SYN	BIOM	POST	0
1285	SC	CHARLESTON	CHARLESTON	CHICAGO BRIDGE/IRON	O/G	LNG	POST	0
1290	SC	CHARLESTON		FABER PLACE	PWR	FOSL	EXIST	0
1295	SC	CHARLESTON		HAGOOD	PWR	FOSL	EXIST	0
1300	SC	CHARLESTON		MOBILE	PWR	FOSL	EXIST	0
1301	SC	CHARLESTON	CHARLESTON	DREDGING-S.3247/3258	TRAN	DRDG	POST	0
1305	SC	CHARLESTON	CHARLESTON	OCS SUPPORT	O/G	BASE	PROP	0
1310	SC	BERKELEY		JEFFERIES	PWR	COAL	EXIST	0
1315	SC	BERKELEY		SPILLWAY	PWR	HYD	EXIST	0
1320	SC	BERKELEY		ST STEPHEN	PWR	HYD	EXIST	0
1325	SC	BERKELEY		CROSS	PWR	COAL	PROP	83
1330	SC	BERKELEY	ST STEPHEN	COOPER RIVER REDIVERSION	PWR	HYD	PROP	0
1335	SC	COLLETON		CANADYS	PWR	COAL	EXIST	0
1340	SC	BEAUFORT		BURTON	PWR	FOSL	EXIST	0
1345	SC	BEAUFORT		BLUFFTON	PWR	FOSL	EXIST	0
1350	SC	BEAUFORT		HILTON HEAD	PWR	FOSL	EXIST	0
1355	SC	BEAUFORT		OCS SUPPORT	O/G	BASE	POST	0
1360	SC	JASPER		HARDEEVILLE	PWR	FOSL	EXIST	0
1365	SC	JASPER		REFINERY	O/G	REFN	POST	0
1370	SC	OCS	SOUTH ATLANTIC	OCS SALE 56	O/G	EXPL	PROP	81
1375	GA	CHATHAM		BOULEVARD	PWR	FOSL	EXIST	0
1380	GA	CHATHAM	PORT WENTWORTH	PORT WENTWORTH	PWR	FOSL	EXIST	0
1385	GA	CHATHAM	SAVANNAH	RIVERSIDE	PWR	FOSL	EXIST	0
1390	GA	CHATHAM	SAVANNAH	AMOCO OIL	O/G	REFN	EXIST	0
1395	GA	CHATHAM	SAVANNAH	CAROLINA REF/DIST	O/G	REFN	PROP	0
1400	GA	CHATHAM	SAVANNAH	SOUTHLAND OIL	O/G	REFN	EXIST	0
1405	GA	CHATHAM	ELBA ISLAND	SOUTHERN CO LNG	O/G	LNG	EXIST	0
1410	GA	CHATHAM	SAVANNAH	TENNECO	O/G	BASE	EXIST	0
1415	GA	CHATHAM	SAVANNAH	PORT/MAX 35,000 DWT	TRAN	PORT	EXIST	0
1420	GA	GLYNN	ST SIMONS SOUND	MCMANUS	PWR	FOSL	EXIST	0
1425	GA	GLYNN	BRUNSWICK	GETTY OIL	O/G	BASE	EXIST	0
1430	GA	GLYNN	BRUNSWICK	TRANSCO	O/G	BASE	EXIST	0
1435	GA	GLYNN	ST SIMONS ISLAND	AIRPORT/OCS SUPPORT	O/G	BASE	EXIST	0
1440	GA	GLYNN	BRUNSWICK	GA/FLA OIL	O/G	REFN	POST	0
1445	GA	OCS	SO ATLANTIC	OCS LEASE SALE 43	O/G	EXPL	EXIST	0
1450	GA	OCS	SO ATLANTIC	OCS LEASE SALE 56	O/G	EXPL	PROP	81

Continued

[a] Key to computer generated list is located in Appendix.

Table 35 concluded.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
1455	FL NASSAU		LIME STREET	PWR	FOSL	EXIST	0
1460	FL DUVAL	JACKSONVILLE	KENNEDY	PWR	FOSL	EXIST	0
1465	FL DUVAL	JACKSONVILLE	NORTHSIDE	PWR	FOSL	EXIST	0
1470	FL DUVAL	JACKSONVILLE	SOUTHSIDE	PWR	FOSL	EXIST	0
1475	FL DUVAL	JACKSONVL/BLOUNT IS	COAL-OIL MIXTURE PREP PLANT	SYN	COAL	POST	0
1480	FL DUVAL	JACKSONVILLE	OFFSHORE POWER SYSTEMS	OTHR	MISC	EXIST	0
1485	FL DUVAL	JACKSONVILLE	3 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
1490	FL DUVAL	JACKSONVILLE	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
1495	FL VOLUSIA		SANFORD	PWR	FOSL	EXIST	0
1500	FL VOLUSIA		TURNER	PWR	FOSL	EXIST	0
1505	FL VOLUSIA		DEBARY	PWR	FOSL	EXIST	0
1510	FL VOLUSIA		NEW SMYRA	PWR	FOSL	EXIST	0
1515	FL VOLUSIA		PEAK PLANT	PWR	FOSL	EXIST	0
1520	FL VOLUSIA		W E SWOOPE	PWR	FOSL	EXIST	0
1525	FL BREVARD	COCOA	CAPE CANAVERAL	PWR	FOSL	EXIST	0
1530	FL BREVARD	TITUSVILLE	INDIAN RIVER	PWR	FOSL	EXPAN	82
1535	FL BREVARD	PORT CANAVERAL	PIPELINE	TRAN	PIPE	EXIST	0
1540	FL INDIAN RIVER	VERO BEACH	MUNICIPAL PLANT	PWR	FOSL	EXIST	0
1545	FL ST LUCIE	FORT PIERCE	ST LUCIE	PWR	NUKE	EXPAN	83
1550	FL ST LUCIE	FORT PIERCE	KING	PWR	FOSL	EXIST	0
1555	FL MARTIN	PALMBEACH	MARTIN	PWR	FOSL	EXIST	0
1560	FL PALM BEACH	LAKE WORTH INLET	OIL STORAGE	TRAN	OIL	EXIST	0
1565	FL PALM BEACH	VARIOUS	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
1570	FL PALM BEACH	RIVIERA BEACH	RIVIERA	PWR	FOSL	EXIST	0
1575	FL PALM BEACH		TOM G SMITH	PWR	FOSL	EXIST	0
1580	FL BROWARD	FORT LAUDERDALE	LAUDERDALE	PWR	FOSL	EXIST	0
1585	FL BROWARD	PORT EVERGLADES	PORT EVERGLADES	PWR	FOSL	EXIST	0
1590	FL BROWARD	PORT EVERGLADES	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
1595	FL BROWARD		TRANSMISSION LINE RELAY SYS	OTHR	MISC	PROP	0
1600	FL BROWARD	VARIOUS	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
1605	FL DADE	HIALEAH	RESOURCE RECOVERY INC	PWR	WAST	EXIST	0
1607	FL DADE	MIAMI	ETHANOL FROM CELLULOSIC TRASH	SYN	BIOM	POST	0
1610	FL DADE		MOBILE TRAILER	PWR	FOSL	EXIST	0
1615	FL DADE	FLORIDA CITY	TURKEY POINT	PWR	FOSL	EXIST	0
1620	FL DADE	FLORIDA CITY	TURKEY POINT	PWR	NUKE	EXIST	0
1625	FL DADE	HOMESTEAD	GW IVEY	PWR	FOSL	EXIST	0
1630	FL DADE	SO MIAMI	CUTLER	PWR	FOSL	EXIST	0
1635	FL DADE	MIAMI	PORT/MAX 20,000 DWT	TRAN	PORT	EXIST	0
1640	FL DADE		2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0

[a] Key to computer generated list is located in Appendix.

REGION 4 - CENTRAL AND EASTERN GULF (FL, AL, MS, LA)

By far, the most extensive impacts from energy development in the Gulf are related to oil and gas exploration and production. Louisiana and the western third of Mississippi's coastal zone are intensively developed with oil and gas wells, pipelines, and related transportation facilities, such as canals and boatyards (Larson, et al., 1980). This development extends into state waters and the OCS, with the concomitant onshore support industries clustered near waterways and towns. Oil and gas support industries are varied, ranging from those directly concerned with oil and gas, such as drilling, pipelaying and coating, and platform fabrication, to those with more general services, such as caterers, marine and helicopter transport, and shipyards. The number of these industries is so large that the economy of the region is based on the existence of the oil and gas industry. Centers of oil and gas support activities, other than Louisiana, are located at Gulfport, Pascagoula and Moss Point, Mississippi, and Mobile, Alabama, where recently there was a significant oil find in Mobile Harbor.

Existing OCS development is extensive in the Gulf, and the existing infrastructure is expected to suffice for any new development, except possibly for the new areas near the Florida coast. Industry interest in the area is high and several locations have been suggested as suitable support bases, including Panama City, Port Manatee and Boca Grande, all in Florida. Oil produced there would likely be tankered to Texas or Louisiana for refining.

Refineries are located throughout the Louisiana coastal zone, supplied with domestic crude oil mostly through the pipeline infrastructure, and with a lesser amount of foreign crude by tankers and barges. New refineries are planned in Harvey, Westwego, Vacherie, Atchafalaya and Lake Charles in Louisiana, while several expansions of existing refineries are also planned. The expectation is that the new capacity will handle mostly new domestic production. Elsewhere in the Gulf area, only one refinery is planning a capacity expansion, among the existing refinery locations: Palmetto, Florida, Mobile, Alabama (where there are five refineries); and Pascagoula, Mississippi.

Four sites for the storage of the Strategic Petroleum Reserve (SPR) are located in Louisiana: West Hackberry, Sulphur Mines, Bayou Choctaw, and Weeks Island. The marine terminal for the SPR is located in St. James Parish with pipelines from the terminal to the storage areas. Geothermal exploration is occurring in several areas of coastal and offshore Louisiana, and development is postulated when advances in the utilization technology are made.

Transportation of coal has been centered in Mobile and New Orleans. Mobile is likely to become a large coal transportation center with the opening of the Tennessee-Tombigbee Waterway, and further enlargement of the harbor to accommodate this development will impinge on existing wetland habitat.

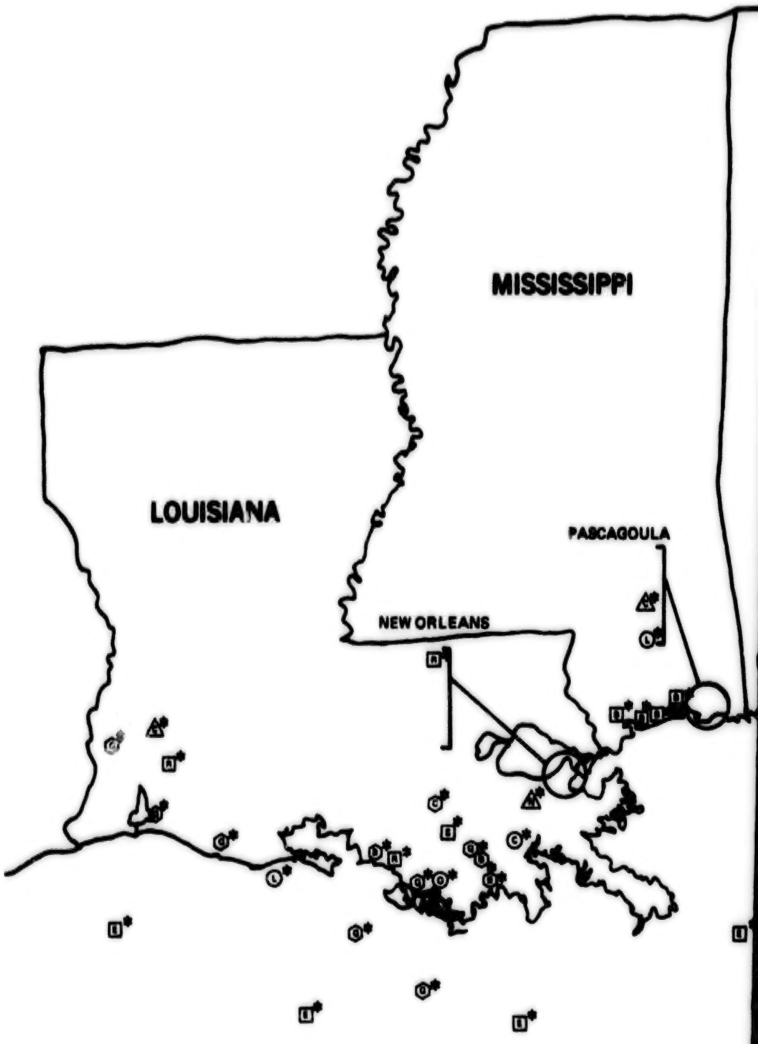
Most electrical power generation in this area is fueled by oil and gas. Florida receives a large amount of its supplies from foreign sources, while supplies in the Central Gulf are usually of domestic origin. The federally mandated switch to coal is likely to be resisted, in Louisiana particularly, because of the higher expense of coal compared to oil and gas. However, all of the proposed new power plants and expansions, of which there are five, are currently planned for coal in this area, except for a nuclear plant in Taft, Louisiana.

Development of the lignite-coal fields now being leased for development to the north of the Louisiana coastal wetlands, may result in some coastal impacts from water and air discharges. Industrial and petrochemical development along a corridor from Baton Rogue to New Orleans has some secondary impacts on the coastal zone in terms of increased transportation traffic and oil storage areas.

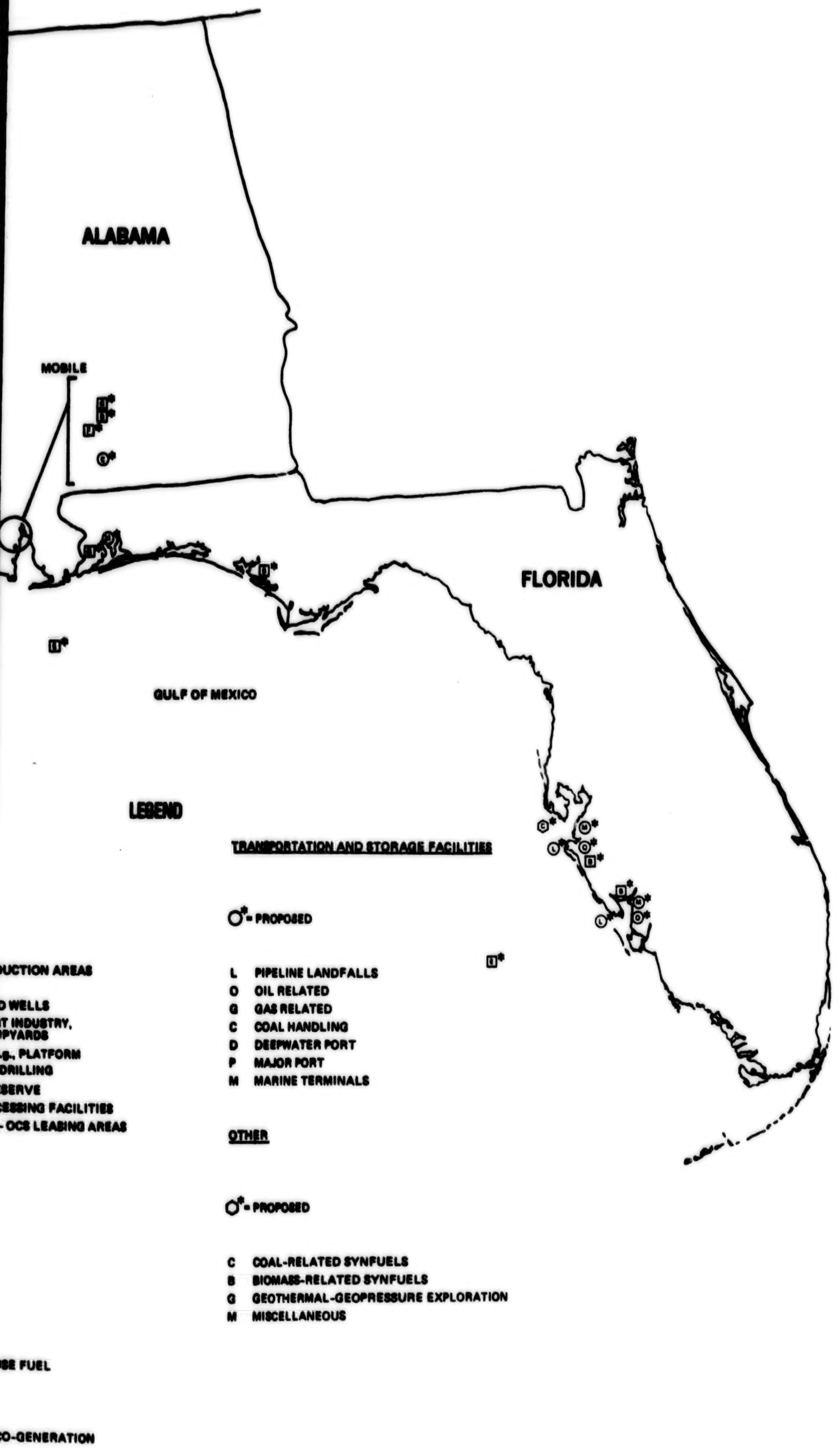
The resources causing the most concern in the Gulf are the coastal marshes and estuaries, especially in Louisiana. There have been increasing losses in land, following a progression from fresh water marsh habitats to brackish then salt water marshes, and finally to open water. Louisiana state officials are concerned as their taxes are based on the salt content of the marshland, the highest rate for fresh water, down to zero if the land is lost to open water. The causes for fishery or bird losses are not clear as the municipal pollution load from the Mississippi River is dumped into the same areas as OCS and other energy development discharge; hence, the debate over mitigation and corrective strategies is intense and controversial. Florida also has expressed concern over proposed OCS development near the Keys, as it may have impacts on sport and commercial fisheries and on estuaries already experiencing problems from reduced freshwater inflow.

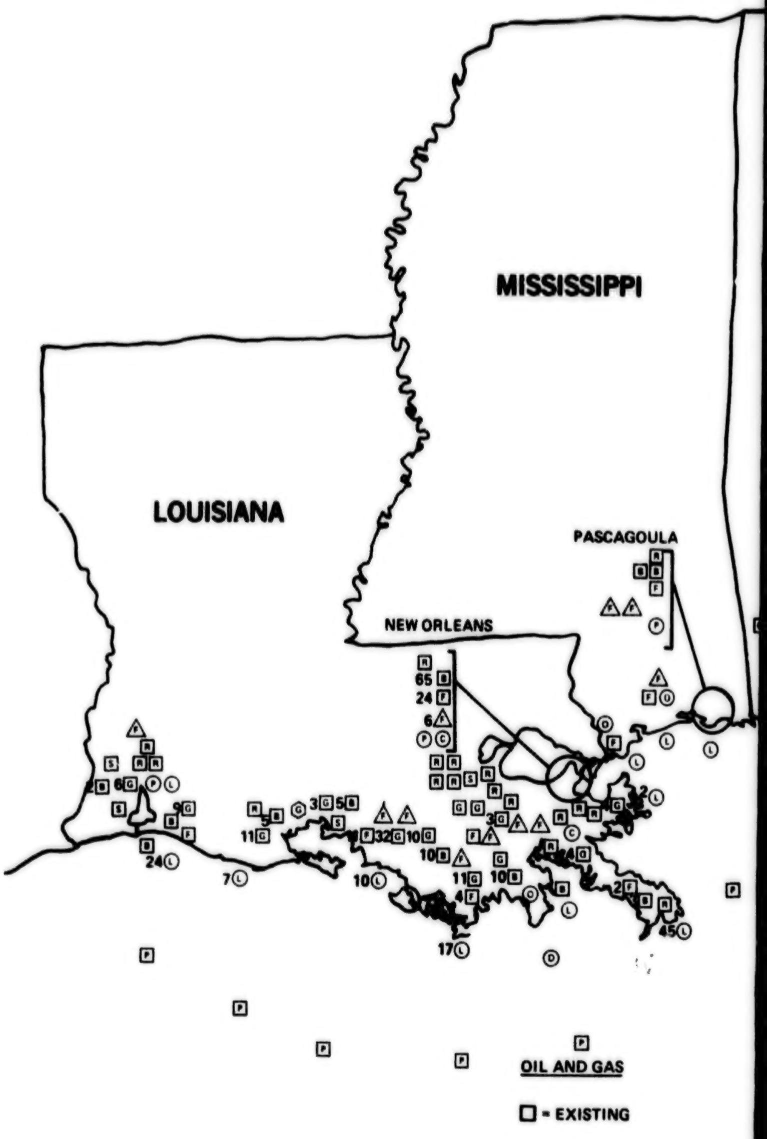
Florida's advance planning program, mentioned in the previous section, allows mitigation and consultation at early stages of energy project planning. Alabama is anxious to develop its resources, especially oil and gas in its state waters, and the state appears interested in assessing the environmental resources before development gets too extensive. Mississippi's interest in oyster mariculture has limited its enthusiasm for offshore oil and gas development in state waters. Louisiana has recently obtained Federal approval for its coastal zone management plan, which allows the state to consolidate authority for coastal permits into a one stop system. Federal funding will allow Louisiana to monitor energy development impacts, providing a means for the state to enforce its concerns over land losses.

Other issues of concern in the Gulf include: the location of new coal-fired power plants near Class I air quality areas, such as The National Wildlife Refuges; OCS development in or near Southern Florida Keys and wetlands; preservation and restoration of coastal marshes, barrier islands, anadromous and estuarine fisheries, migratory birds and water fowl.



MAP 7
Proposed and Postulated Coastal Energy Development in the Central and Eastern Gulf


ALABAMA
MOBILE
FLORIDA
GULF OF MEXICO
LEGEND
TRANSPORTATION AND STORAGE FACILITIES
○* = PROPOSED
L PIPELINE LANDFALLS
O OIL RELATED
G GAS RELATED
C COAL HANDLING
D DEEPWATER PORT
P MAJOR PORT
M MARINE TERMINALS
OTHER
○* = PROPOSED
C COAL-RELATED SYNFUELS
B BIOMASS-RELATED SYNFUELS
G GEOTHERMAL-GEOPRESSURE EXPLORATION
M MISCELLANEOUS
UCTION AREAS
D WELLS
T INDUSTRY,
PYARDS
-g., PLATFORM
DRILLING
SERVE
CESSING FACILITIES
- OCS LEASING AREAS
SE FUEL
O-GENERATION



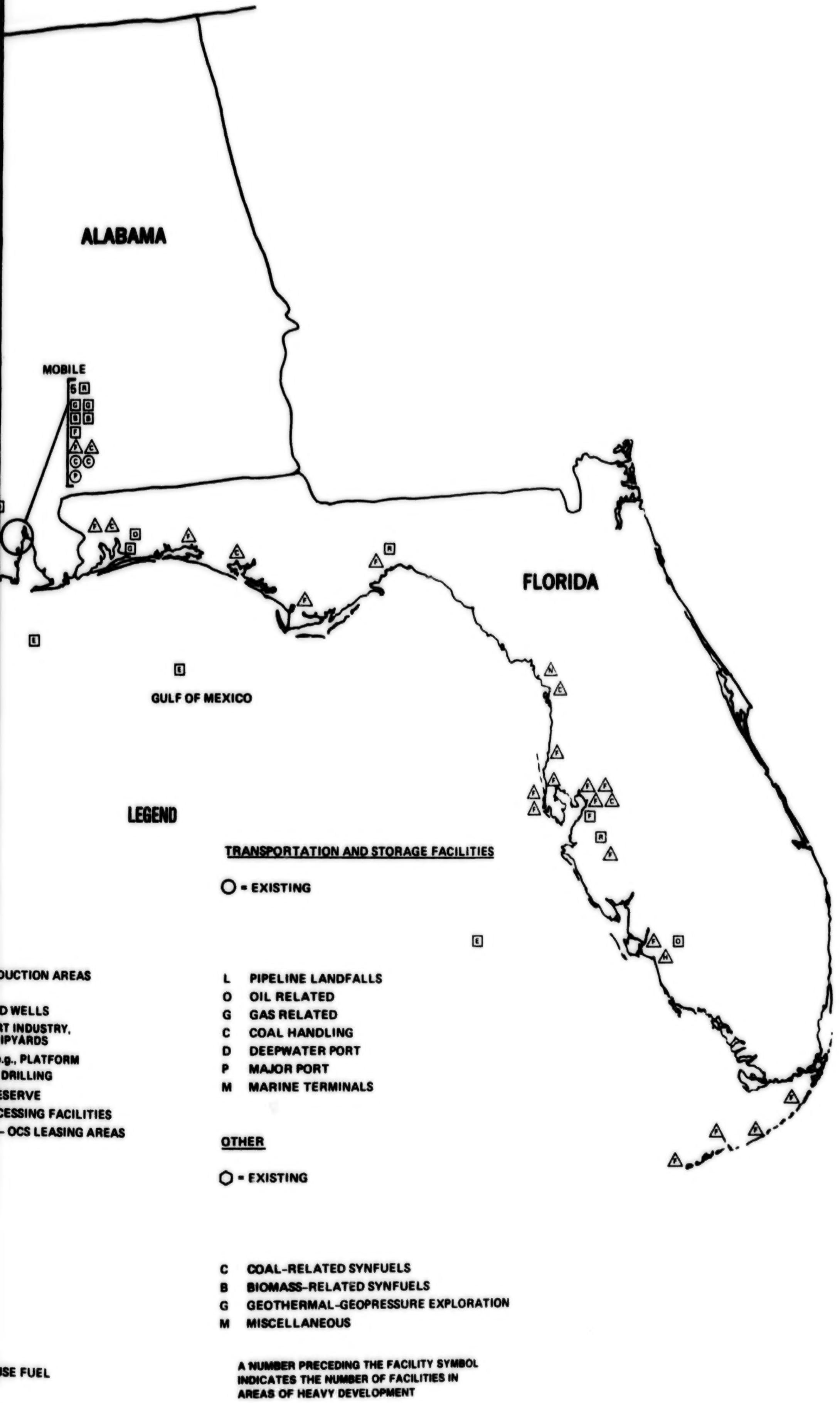
MAP 8
Existing Coastal Energy Development in the Central and Eastern Gulf

O ONSHORE WELLS AND PRO
R REFINERIES
P OFFSHORE PLATFORMS A
B SERVICE BASES, OIL SUPPO
e.g., TRANSPORT, FOOD, S
F OCS-RELATED INDUSTRIES,
FABRICATION, PIPELAYING
S STRATEGIC PETROLEUM R
G OIL/GAS SEPARATION/PRO
E OFFSHORE EXPLORATION
L LNG PLANTS

POWER GENERATION

△ = EXISTING

F OIL OR GAS FUELED
C COAL-FIRED
N NUCLEAR
G GEOTHERMAL
R MUNICIPAL WASTE OR REF
S SOLAR
W WIND
T TIDAL OR WAVE POWER
O OTHER, E.G., WASTE HEAT,
H HYDROELECTRIC DAMS



LEGEND

DUCTION AREAS

D WELLS
RT INDUSTRY,
IPYARDS
.g., PLATFORM
DRILLING
ESERVE
CESSING FACILITIES
– OCS LEASING AREAS

USE FUEL

CO-GENERATION

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

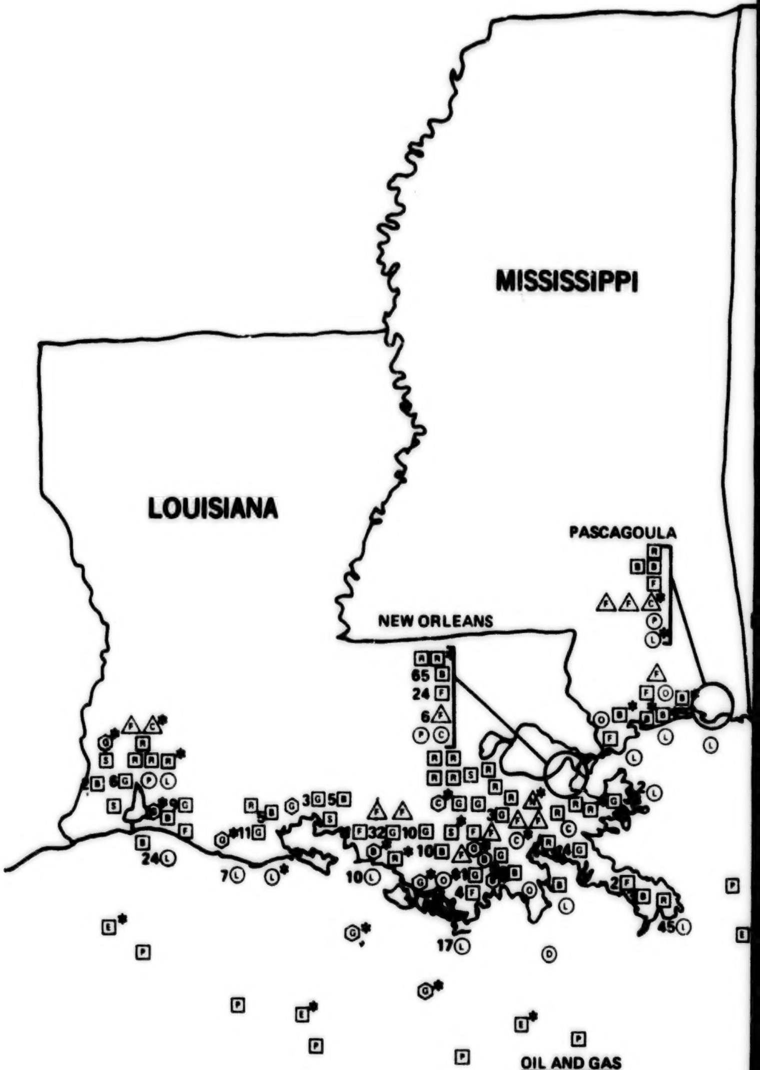
L PIPELINE LANDFALLS
O OIL RELATED
G GAS RELATED
C COAL HANDLING
D DEEPWATER PORT
P MAJOR PORT
M MARINE TERMINALS

OTHER

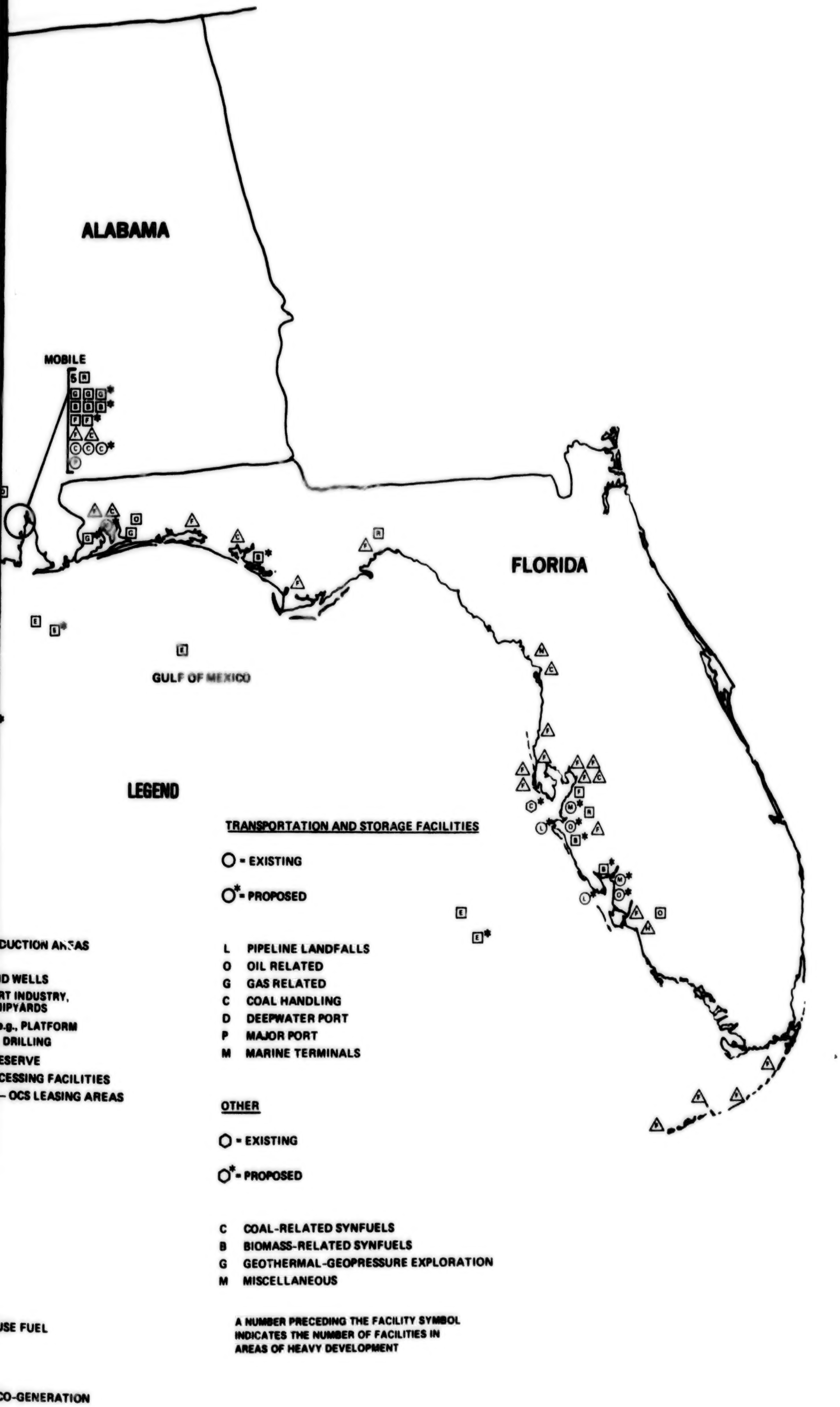
⬡ = EXISTING

C COAL-RELATED SYNFUELS
B BIOMASS-RELATED SYNFUELS
G GEOTHERMAL-GEOPRESSURE EXPLORATION
M MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT



MAP 9
Total Coastal Energy Development if All Proposed and Postulated Projects Occur in the Central and Eastern Gulf


ALABAMA
MOBILE
FLORIDA
GULF OF MEXICO
LEGEND
TRANSPORTATION AND STORAGE FACILITIES
○ = EXISTING
○* = PROPOSED
L PIPELINE LANDFALLS
O OIL RELATED
G GAS RELATED
C COAL HANDLING
D DEEPWATER PORT
P MAJOR PORT
M MARINE TERMINALS
DUCTION AREAS
D WELLS
RT INDUSTRY,
IIPYARDS
e.g., PLATFORM
DRILLING
ESERVE
CESSING FACILITIES
– OCS LEASING AREAS
OTHER
⬡ = EXISTING
⬡* = PROPOSED
C COAL-RELATED SYNFUELS
B BIOMASS-RELATED SYNFUELS
G GEOTHERMAL-GEOPRESSURE EXPLORATION
M MISCELLANEOUS
USE FUEL
A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT
CO-GENERATION

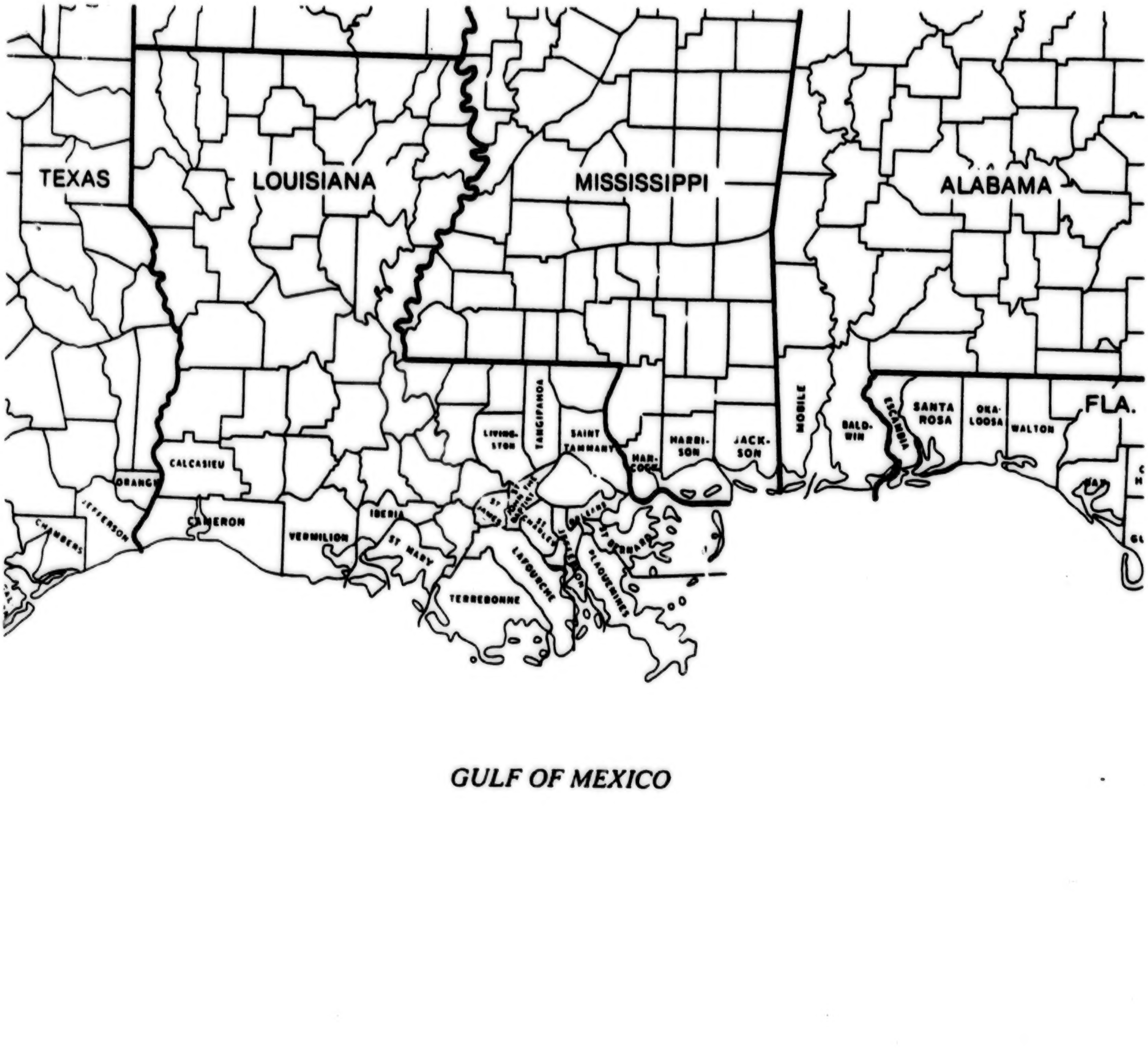


Figure 9. Coastal counties in the Central Gulf of Mexico.

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Table 40. All coastal energy facilities in the Eastern and Central Gulf of Mexico area.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
1645	FL ESCAMBIA		CRIST	PWR	COAL	EXIST	0
1650	FL ESCAMBIA	USN-PENSACOLA	TR CENT	PWR	FOSL	EXIST	0
1655	FL ESCAMBIA	PENSACOLA	MARINE TERMINAL	TRAN	MTER	PROP	0
1660	FL ESCAMBIA	PENSACOLA	GAS PROCESSING PLANT	O/G	GAS	PROP	0
1665	FL SANTA ROSA		ONSHORE OIL/GAS EXPLORATION	O/G	WELL	EXIST	0
1670	FL SANTA ROSA	JAY	EXXON GAS PLANT	O/G	GAS	EXIST	0
1675	FL WALTON		PORTLAND	FWR	FOSL	EXIST	0
1680	FL BAY		SMITH	PWR	COAL	EXIST	0
1685	FL BAY	PANAMA CITY	OCS SUPPORT	O/G	BASE	PROP	0
1690	FL GULF	PORT ST JOE	PORT ST JOE	PWR	FOSL	EXIST	0
1695	FL WAKULLA		PURDOM	PWR	FOSL	EXIST	0
1700	FL WAKULLA	ST MARKS	SEMINOLE ASPHALT RFG	O/G	REFN	EXIST	0
1705	FL CITRUS		CRYSTAL RIVER	PWR	NUKE	EXIST	0
1710	FL CITRUS		CRYSTAL RIVER	PWR	COAL	EXPAN	82
1715	FL PASCO		ANCLOTE	PWR	FOSL	EXIST	0
1720	FL PINELLAS		BAYBORO	PWR	FOSL	EXIST	0
1725	FL PINELLAS		HIGGINS	PWR	FOSL	EXIST	0
1730	FL PINELLAS	ST PETERSBURG	BARTOW	PWR	FOSL	EXIST	0
1735	FL PINELLAS	ST PETERSBURG	SYNFUELS/MED BTU GAS	SYN	COAL	POST	0
1740	FL HILLSBOROUGH	TAMPA	BADGER PIPE/OCS SUPPORT	O/G	OCSR	EXIST	0
1745	FL HILLSBOROUGH		BIG BEND	PWR	COAL	EXPAN	85
1750	FL HILLSBOROUGH		BIG BEND	PWR	FOSL	EXPAN	83
1755	FL HILLSBOROUGH		GANNON	PWR	FOSL	EXIST	0
1760	FL HILLSBOROUGH		HOOKERS POINT	PWR	FOSL	EXIST	0
1765	FL MANATEE		MANATEE	PWR	FOSL	EXIST	0
1770	FL MANATEE	PALMETTO	MANATEE ENERGY CO	O/G	REFN	EXIST	0
1775	FL MANATEE	PORT MANATEE	OCS SERVICE BASE	O/G	BASE	PROP	0
1780	FL MANATEE	PORT MANATEE	MARINE TERMINAL	TRAN	MTER	PROP	0
1785	FL MANATEE	PORT MANATEE	ONSHORE OIL STORAGE	TRAN	OIL	PROP	0
1790	FL MANATEE		PIPELINE OCS	TRAN	PIPE	PROP	0
1795	FL CHARLOTTE	BOCA GRANDE	OCS SERVICE BASE	O/G	BASE	PROP	0
1800	FL CHARLOTTE	BOCA GRANDE	ONSHORE OIL STORAGE	TRAN	OIL	PROP	0
1805	FL CHARLOTTE	BOCA GRANDE	PIPELINE OCS	TRAN	PIPE	PROP	0
1810	FL CHARLOTTE	BOCA GRANDE	MARINE TERMINAL	TRAN	MTER	PROP	0
1815	FL LEE		FORT MEYERS	PWR	FOSL	EXIST	0
1820	FL LEE		WOODRUFF	PWR	HYD	EXIST	0
1825	FL LEE	LEHIGH FIELD	OIL/GAS PRODUCTION	O/G	WELL	EXIST	0
1830	FL MONROE	MARATHON	MARATHON	PWR	FOSL	EXIST	0
1835	FL MONROE	KEY WEST	KEY WEST	PWR	FOSL	EXIST	0
1840	FL MONROE		STOCK ISLAND	FWR	FOSL	EXIST	0
1845	FL MONROE		CUDJOE	PWR	FOSL	EXIST	0
1850	FL GULF COAST	COASTAL AREA	143 OIL WELLS	O/G	WELL	EXIST	0
1855	FL OCS	EASTERN GULF	OCS SALE 66	O/G	EXPL	PROP	0
1860	AL MOBILE		BARRY	PWR	COAL	EXIST	0
1865	AL MOBILE		CHICKASAW	PWR	FOSL	EXIST	0
1870	AL MOBILE	SARALAND	LA LAND/EXPLORATION	O/G	REFN	EXIST	0
1875	AL MOBILE	THEODORE	MARION CORP	O/G	REFN	EXPAN	0
1830	AL MOBILE	CHICKASAW	MOBILE BAY REFINING	O/G	REFN	EXIST	0
1885	AL MOBILE	MOBILE	GETTY OIL	O/G	REFN	EXPAN	0
1890	AL MOBILE	DAPHNE	MARION CORP	O/G	REFN	EXIST	0
1895	AL MOBILE	CITRONELLE	CITIES SERVICE GAS PLANT	O/G	GAS	EXIST	0
1900	AL MOBILE	HATTERS POND	GETTY GAS PLANT	O/G	GAS	EXIST	0
1905	AL MOBILE		KAISER FABRICATORS	O/G	OCSR	PROP	0
1910	AL MOBILE	MOBILE	OCS SUPPORT	O/G	OCSR	EXIST	0
1915	AL MOBILE	MOBILE	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
1920	AL MOBILE	MCDUFFIE ISLAND	MCDUFFIE TERMINAL	TRAN	COAL	EXFAN	0
1925	AL MOBILE	MOBILE	STATE COAL HANDLING DOCK	TRAN	COAL	EXIST	0
1930	AL MOBILE	CHUNCHULA	CHUNCHULA FIELD	O/G	WELL	EXIST	0
1935	AL MOBILE	MOBILE HARBOR	COAL FROM TENN-TOM WATERWAY	TRAN	COAL	PROP	0
1936	AL MOBILE	MOBILE HARBOR	DREDGING PROJECT	TRAN	DRDG	PROP	90
1940	AL MOBILE	MOBILE	OCS SUPPORT	O/G	BASE	PROP	0
1945	AL MOBILE	MOBILE	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
1950	AL MOBILE	MOBILE	GAS PROCESSING	O/G	GAS	PROP	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 40 continued.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
1955	AL MOBILE	MOBILE HARBOR	OFFSHORE OIL FIND	O/G	PLAT	PROP	0
1960	AL OCS	GULF OCS	ACTIVE OCS LEASE AREA	O/G	EXPL	EXIST	0
1965	AL OCS	GULF OCS	LEASE SALE 66	O/G	EXPL	PROP	81
1970	AL MOBILE	ONSHORE	608 OIL WELLS	O/G	WELL	EXIST	0
1975	AL MOBILE	STATE WATERS	STATE LEASES	O/G	EXPL	EXIST	0
1980	MS HANCOCK		PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
1985	MS HANCOCK	PEARLINGTON	OIL STORAGE	TRAN	OIL	EXIST	0
1990	MS HANCOCK	PEARLINGTON	FABRICATION YARDS	O/G	OCSR	EXIST	0
1995	MS HANCOCK	BAY ST LOUIS	OCS SERVICE BASE	O/G	BASE	EXIST	0
2000	MS HARRISON	GULFPORT	WATSON	PWR	FOSL	EXIST	0
2005	MS HARRISON		PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
2010	MS HARRISON	GULFPORT	OIL STORAGE	TRAN	OIL	EXIST	0
2015	MS HARRISON	PASS CHRISTIAN	OCS SERVICE BASE	O/G	BASE	PROP	0
2020	MS HARRISON	GULFPORT	OCS SERVICE BASE	O/G	BASE	PROP	0
2025	MS HARRISON	GULFPORT	FABRICATION YARDS	O/G	OCSR	EXIST	0
2030	MS JACKSON	PASCAGOULA	STANDARD OIL	PWR	FOSL	EXIST	0
2035	MS JACKSON	MOSS POINT	VICTOR J DANIEL	PWR	FOSL	EXIST	0
2040	MS JACKSON	MOSS POINT	VICTOR J DANIEL	PWR	COAL	PROP	81
2045	MS JACKSON	PASCAGOULA	CHEVRON USA	O/G	REFN	EXIST	0
2050	MS JACKSON	PASCAGOULA	TENNECO LNG	O/G	LNG	PROP	0
2055	MS JACKSON	PASCAGOULA	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
2060	MS JACKSON		PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
2065	MS JACKSON	BILOXI	OCS SERVICE BASE	O/G	BASE	PROP	0
2070	MS JACKSON	MOSS POINT	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
2075	MS JACKSON	PASCAGOULA	INGALLS SHIPBLDG FAB	O/G	OCSR	EXIST	0
2080	MS COASTAL ZONE	COASTAL AREA	2,237 OIL WELLS	O/G	WELL	EXIST	0
2085	MS OCS	CENTRAL GULF	OCS EXPLORATION	O/G	EXPL	PROP	80
2090	LA CALCASIEU	LAKE CHARLES	CITIES SERVICE	O/G	REFN	EXPAN	80
2095	LA CALCASIEU	LAKE CHARLES	LAKE CHARLES REFINING	O/G	REFN	EXIST	0
2100	LA CALCASIEU	LAKE CHARLES	RESOURCE REFINING	O/G	REFN	PROP	80
2105	LA CALCASIEU	LAKE CHARLES	PORT/MAX 40,000 DWT	TRAN	PORT	EXIST	0
2110	LA CALCASIEU	VARIOUS	6 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2115	LA CALCASIEU	WESTLAKE	CONTINENTAL OIL	O/G	REFN	EXPAN	80
2120	LA CALCASIEU	WESTLAKE	COAL TO SYNGAS	SYN	COAL	PROP	0
2125	LA CALCASIEU		NELSON	PWR	FOSL	EXIST	0
2130	LA CALCASIEU		NELSON	PWR	COAL	PROP	82
2135	LA CALCASIEU	LAKE CHARLES	TRUNKLINE LNG CO	O/G	LNG	EXIST	0
2140	LA CALCASIEU	SULFUR	SPR OIL STORAGE	O/G	SPR	EXIST	0
2145	LA CALCASIEU	SULFUR	GEOPRESSURED PROSPECT AREA	OTHR	GEO	PROP	0
2150	LA CALCASIEU	VARIOUS	2 OCS SERVICE FAC	O/G	BASE	EXIST	0
2155	LA CAMERON	CAMERON	GETTY SUPPORT BASE	O/G	BASE	EXIST	0
2160	LA CAMERON	WEST HACKBERRY	SPR OIL STORAGE	O/G	SPR	EXPAN	0
2165	LA CAMERON	GRAND CHENIER	SERVICE	O/G	BASE	EXIST	0
2170	LA CAMERON		OCS SUPPORT	O/G	OCSR	EXIST	0
2175	LA CAMERON	CAMERON PARISH	24 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2180	LA CAMERON	EASTERN COASTAL AREA	GETTY/BUTTES O/G CO	OTHR	GEO	EXIST	0
2185	LA CAMERON		9 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2190	LA CAMERON	JOHNSON BAYOU	GEOPRESSURED PROSPECT AREA	OTHR	GEO	PROP	0
2195	LA VERMILLION	ERATH	SEA ROBIN 3	O/G	GAS	EXIST	0
2200	LA VERMILLION	ABBEVILLE	COASTAL STATES GAS	OTHR	GEO	EXIST	0
2205	LA VERMILLION	VERMILLION PARISH	7 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2210	LA VERMILLION	VERMILLION PARISH	TENNESSEE GAS PIPELINE CO	TRAN	PIPE	PROP	0
2215	LA VERMILLION	GUEYDAN	MALLARD RESOURCES	O/G	REFN	EXIST	0
2220	LA VERMILLION		10 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2225	LA VERMILLION		4 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
2230	LA VERMILLION	INTRACOASTAL CITY	SERVICE BASE	O/G	BASE	EXIST	0
2235	LA IBERIA	WEEKS ISLAND	SPR OIL STORAGE	O/G	SPR	EXPAN	0
2240	LA IBERIA	VARIOUS	3 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2245	LA IBERIA	VARIOUS	5 OCS SERVICE BASES	O/G	BASE	EXIST	0
2250	LA IBERIA	NEW IBERIA	OASIS/ETHANOL REFINERY	SYN	BIOM	PROP	82
2255	LA ST MARY	VARIOUS	11 OCS SUPPORT IND	O/G	OCSR	EXIST	0
2260	LA ST MARY	MORGAN CITY	SERVICE BASE	O/G	BASE	EXIST	0
2265	LA ST MARY	VARIOUS	30 OCS SERVICE IND	O/G	BASE	EXIST	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 40 continued.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
2270	LA ST MARY		TECHE	PWR	FOSL	EXIST	0
2275	LA ST MARY		MORGAN CITY	PWR	FOSL	EXIST	0
2280	LA ST MARY	ATCHAFALAYA RIVER	OCS SUPPORT IND	O/G	OCSR	EXIST	0
2285	LA ST MARY	ATCHAFALAYA	VEN-TECH REFINERY	O/G	REFN	PROP	0
2290	LA ST MARY	FRANKLIN	LA GASOHOL CORP (2)	SYN	BIOM	PROP	0
2295	LA ST MARY	VARIOUS	10 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2300	LA ST MARY	VARIOUS	10 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2305	LA ST MARY	OFFSHORE	EUGENE IS/GEO PROSPECT AREA	OTHR	GEO	PROP	0
2310	LA TERREBONNE	HOUMA	SERVICE BASE	O/G	BASE	EXIST	0
2315	LA TERREBONNE	VARIOUS	8 OCS SERVICE IND	O/G	BASE	EXIST	0
2320	LA TERREBONNE	HOUMA	HOUMA	PWR	FOSL	EXIST	0
2325	LA TERREBONNE	CHACAHOULA	SPR OIL STORAGE	O/G	SPR	PROP	0
2330	LA TERREBONNE	ATCHAFALAYA BAY	GEOPRESSURED PROSPECT AREA	OTHR	GEO	PROP	0
2335	LA TERREBONNE	VARIOUS	17 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2340	LA TERREBONNE	CAILLOU	OIL TERMINAL	TRAN	OIL	PROP	0
2345	LA TERREBONNE	VARIOUS	11 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2350	LA TERREBONNE	VARIOUS	4 OCS SUPPORT IND	O/G	OCSR	EXIST	0
2355	LA TERREBONNE	DULAC	SERVICE BASE	O/G	BASE	EXIST	0
2360	LA TERREBONNE	OFFSHORE	SO TIMBALIER/GEO PROSPECT AREA	OTHR	GEO	PROP	0
2365	LA LAFOURCHE	LEEVILLE	SERVICE BASE	O/G	BASE	EXIST	0
2370	LA LAFOURCHE	THIBODAUX	BAY DRILLING CO	O/G	OCSR	EXIST	0
2375	LA LAFOURCHE	GOLDEN MEADOW	SERVICE BASE	O/G	BASE	EXIST	0
2380	LA LAFOURCHE	VARIOUS	OCS SERVICE IND	O/G	BASE	EXIST	0
2385	LA LAFOURCHE	THIBODAUX	THIBODAUX	PWR	FOSL	EXIST	0
2390	LA LAFOURCHE	THIBODAUX	SYNFUELS/ETHANOL FROM CROPS	SYN	BIOM	PROP	0
2395	LA LAFOURCHE	OFFSHORE	LOOP	TRAN	DPRT	EXIST	0
2400	LA LAFOURCHE	ONSHORE	LOOP OIL STORAGE	TRAN	OIL	EXIST	0
2405	LA LAFOURCHE	THIBODAUX	GEOPRESSURED PROSPECT AREA	OTHR	GEO	PROP	0
2410	LA LAFOURCHE		LIQUID PRODUCTS GAS PLANT	O/G	GAS	EXIST	0
2415	LA ST JAMES	CONVENT	TEXACO	O/G	REFN	EXIST	0
2420	LA ST JAMES	CONVENT	TEXACO/METHANOL FROM COAL	SYN	COAL	PROP	0
2425	LA ST JAMES	ST JAMES	LA. JET INC	O/G	REFN	EXPAN	82
2430	LA ST JAMES	ST JAMES	SPR TERMINAL	O/G	SPR	EXIST	0
2435	LA ST JAMES	VACHERIE	TWIN OAK REFINING	O/G	REFN	PROP	0
2440	LA ST JAMES	GOOD HOPE	GOOD HOPE REFINING	O/G	REFN	EXIST	0
2445	LA ST JAMES	VARIOUS	2 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2450	LA ST JOHN BAPT	FINDLY	RESERVE REFINERY	O/G	REFN	EXIST	0
2455	LA ST JOHN BAPT	GARYVILLE	MARATHON REFINERY	O/G	REFN	EXIST	0
2460	LA ST CHARLES	NORCO	SHELL	O/G	REFN	EXIST	0
2465	LA ST CHARLES		LITTLE GYPSY	PWR	FOSL	EXIST	0
2470	LA ST CHARLES	TAFT	WATERFORD	PWR	FOSL	EXIST	0
2475	LA ST CHARLES	TAFT	WATERFORD	PWR	NUKE	PROP	81
2480	LA ST CHARLES	VARIOUS	3 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2485	LA JEFFERSON	GRAND ISLE	SERVICE BASE	O/G	BASE	EXIST	0
2490	LA JEFFERSON	VARIOUS	23 OCS SERVICE IND	O/G	BASE	EXIST	0
2495	LA JEFFERSON	VARIOUS	6 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2500	LA JEFFERSON	VARIOUS	12 OCS SUPPORT IND	O/G	OCSR	EXIST	0
2505	LA JEFFERSON	WESTWEGO	REFINERY SERVICES	O/G	REFN	PROP	0
2510	LA JEFFERSON		NINE MILE POINT	PWR	FOSL	EXIST	0
2515	LA JEFFERSON	HARVEY	SERVICE BASE	O/G	BASE	EXIST	0
2520	LA JEFFERSON	HARVEY	TIBER REFINING	O/G	REFN	PROP	81
2525	LA PLAQUEMINES		BURAS	PWR	FOSL	EXIST	0
2526	LA PLAQUEMINES		ETHANOL FROM CORN	SYN	BIOM	POST	0
2530	LA PLAQUEMINES	BELLE CHASE	GULF OIL	O/G	REFN	EXIST	0
2535	LA PLAQUEMINES	VENICE	GULF OIL	O/G	REFN	EXIST	0
2540	LA PLAQUEMINES	VARIOUS	45 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2545	LA PLAQUEMINES	VARIOUS	4 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2550	LA PLAQUEMINES	VARIOUS	2 OCS SERVICE IND	O/G	BASE	EXIST	0
2555	LA PLAQUEMINES	VENICE	SERVICE BASE	O/G	BASE	EXIST	0
2560	LA PLAQUEMINES	DAVANT	ELECTRO-COAL TERMINAL	TRAN	COAL	EXPAN	0
2565	LA PLAQUEMINES	VARIOUS	2 OCS SUPPORT IND	O/G	OCSR	EXIST	0
2570	LA ST BERNARD	CHALMETTE	TENNECO	O/G	REFN	EXPAN	0
2575	LA ST BERNARD	MERAUX	MURPHY	O/G	REFN	EXIST	0
2580	LA ST BERNARD	VARIOUS	2 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2585	LA ST BERNARD	VARIOUS	4 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 40 concluded.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
2590	LA ORLEANS	NEW ORLEANS	N.O. BULK TERMINAL/COAL EXPORT	TRAN	COAL	EXPAN	0
2595	LA ORLEANS	NEW ORLEANS	PORT/MAX 50,000DWT	TRAN	PORT	EXIST	0
2596	LA ORLEANS	N O/BATON ROUGE	DREDGING PROJECT	TRAN	DRDG	PROP	88
2598	LA ORLEANS	NEW ORLEANS	ETHANOL FROM CORN	SYN	BIOM	POST	0
2600	LA ORLEANS		PATTERSON	PWR	FOSL	EXIST	0
2605	LA ORLEANS		MARKET STREET	PWR	FOSL	EXIST	0
2610	LA ORLEANS		MICHOUD	PWR	FOSL	EXIST	0
2615	LA ORLEANS	(N O SEWAGE)	POWER HOUSE 2	PWR	FOSL	EXIST	0
2620	LA ORLEANS	(N O SEWAGE)	STATION C	PWR	FOSL	EXIST	0
2625	LA ORLEANS	VARIOUS	41 OCS SERVICE IND	O/G	BASE	EXIST	0
2630	LA ORLEANS	VARIOUS	12 OCS SUPPORT IND	O/G	OCSR	EXIST	0
2635	LA PLAQUEMINES	DELTA AREA	POTENTIAL COAL EXPORT TERMINAL	TRAN	COAL	POST	0
2640	LA DELTA AREA		U S ETHANOL/ETHANOL PLANT	SYN	BIOM	PROP	0
2645	LA DELTA AREA	OFFSHORE	ALCOHOL FROM WASTE	SYN	BIOM	PROP	0
2650	LA COASTAL ZONE		12,535 OIL WELLS	O/G	WELL	EXIST	0
2655	LA OCS	CENTRAL GULF	OCS PRODUCTION/EXPLORATION	O/G	PLAT	EXIST	0

[a] Key to computer generated list is located in Appendix.

REGION 2 - TEXAS

Extensive onshore and offshore development has given rise to a well developed oil and gas infrastructure along most sections of the Texas coast. This infrastructure of refineries, pipelines, treatment plants, and support industries is still expanding and in future years may be joined by a separate infrastructure tapping the geothermal-geopressured resources of the area. This energy infrastructure exists in an environment of barrier islands, coastal bays, and estuaries on which it has and will continue to exert serious resource degradation pressures.

Oil and gas development will continue for years to be the primary impact concern along the Texas coast even though total production figures are now declining. There are in excess of 14,000 onshore production wells in the coastal area and dozens of platforms dot the offshore and OCS areas. Active OCS lease areas stretch along the entire Texas coast and new leases are proposed throughout the Gulf OCS region. Offshore wells are connected to onshore treatment and storage facilities via submarine pipelines, and there are pipeline landfalls in nearly every coastal county. Several new offshore pipelines are proposed including a 92 mile gas pipeline from southern Texas to Corpus Christi, the High Island pipeline in the northern Gulf, and a nearshore gas trunkline extending along the majority of the state's coastline.

There are dozens of existing refineries in the Texas coastal area with Brownsville, Corpus Christi, Freeport, Galveston, Houston, and Port Arthur serving as main refining centers. Expansion and conversion of existing refineries or construction of new refineries are scheduled during the next five years for all of these refining centers. There are nearly 50 gas processing plants located in the Texas coastal counties and LNG plants to receive imported LNG are postulated for several sites. A proposal to build a facility in Port O'Connor to receive imported LNG from Algeria was recently rejected by the Federal Government.

Port facilities for berthing oil tankers exist in Brownsville, Port Isabel, Corpus Christi, Point Comfort, Freeport, Texas City, Galveston, Houston, Baytown, Port Arthur, Beaumont, and Nederland. New tanker ports are proposed for Corpus Christi (Harbor Island deepwater port), Freeport (Phillips), and Galveston (Pelican Island marine terminal). Located near Freeport is the Bryan Mound SPR oil storage facility. This facility will eventually consist of 16 salt dome caverns with a storage capacity of 180 million barrels. Oil is supplied to Bryan Mound through a marine terminal in Freeport. Brine waste from the leaching process is piped 12½ miles into the Gulf for disposal.

The extensive oil and gas development has given rise to a massive array of support industries in the coastal counties. Establishments for transport, ship building, fabrication, pipelaying, drilling, and a variety of other services are located in many coastal ports with a very heavy concentration in the Houston area. Support bases for OCS exploration and production are numerous and are located along the entire coastline. The majority of support facilities are sited on the mainland with only a small number located on the barrier islands.

Electric generating capacity within the coastal counties consists almost entirely of gas and oil-fueled power plants. Two coal-fired power plants are proposed for siting in Harris and Victoria Counties; however, the State of Texas is opposed to coal-fired plants because of the abundance of oil and gas fuels in the region and the greater cost of coal-fired electric generation. The South Texas nuclear power plant is scheduled to go online in 1984 near Bay City in Matagordo County.

Commercial development of the geothermal-geopressure resources of the Texas coast is postulated for an as yet unspecific future time. Several exploratory wells have been drilled but the resource potential is still under evaluation. Five promising onshore areas have been identified to date along with two promising offshore areas. Development would consist of production and disposal wells, pipelines, and electrical generating facilities. Offshore production wells are postulated.

Several coal synfuel facilities are proposed or postulated for the Texas coast where they are replaced by extensive submerged grassflats. Exxon has proposed a plant in Baytown and a second plant is proposed for Texas City. A third plant is postulated for an unselected site on the coast.

The Texas coast is characterized by a pattern of wetlands, barrier islands, bays, and estuaries. The wetlands of the northern coast diminish to a narrow band along the semi-arid southern coast where they are replaced by extensive submerged grass flats. A vast system of bays and lagoons is formed by the extensive system of barrier islands. Approximately four million waterfowl winter in the Texas coast each year. These areas also support numerous species of endangered birds, mammals, and reptiles, and vast numbers of shore and wading birds. Industrial and urban concentrations occupy long stretches of the coast, particularly in the Houston-Galveston and Corpus Christi areas. The productivity of 80 percent of the Texas estuaries upon which waterfowl depend has been greatly reduced in recent years by a number of development types including oil and gas exploration and dredging. Areas of particular concern include the Aransas National Wildlife Refuge, South Padre Island, and Laguna Madre.

The Texas coastal region has high occurrences of air pollution problems in those locations with high population and industrial concentrations such as the Houston-Galveston area. The frequent air pollution episodes could forestall future energy development in these areas. Air quality in other areas of the Texas coastal zone is generally good.

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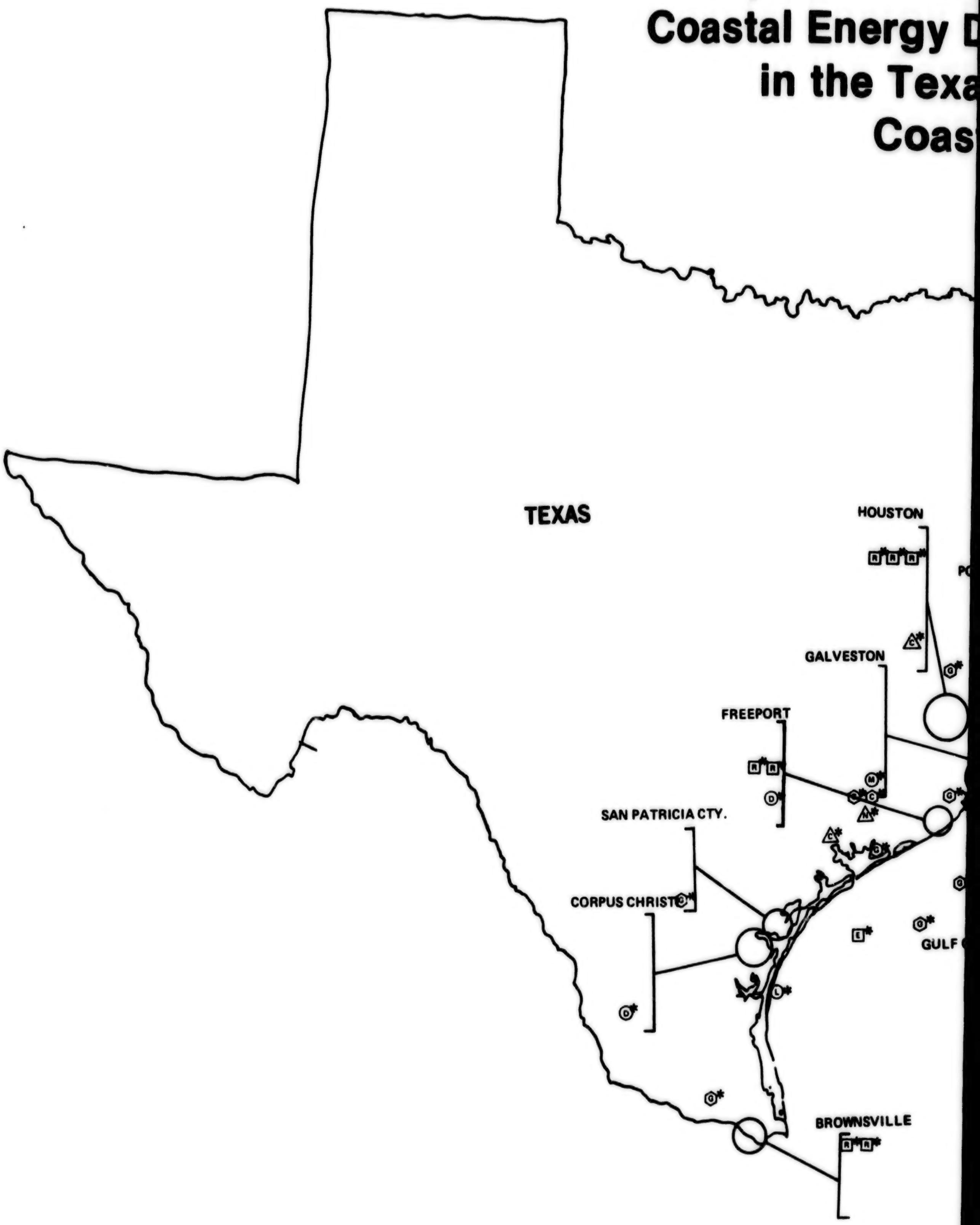

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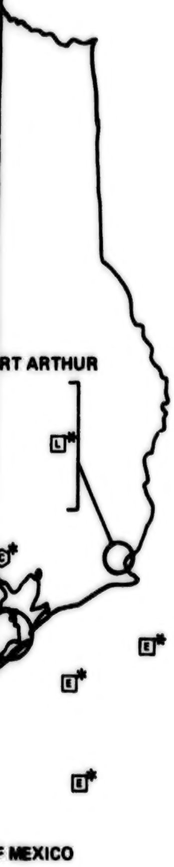

LEGEND

OIL AND GAS

□* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

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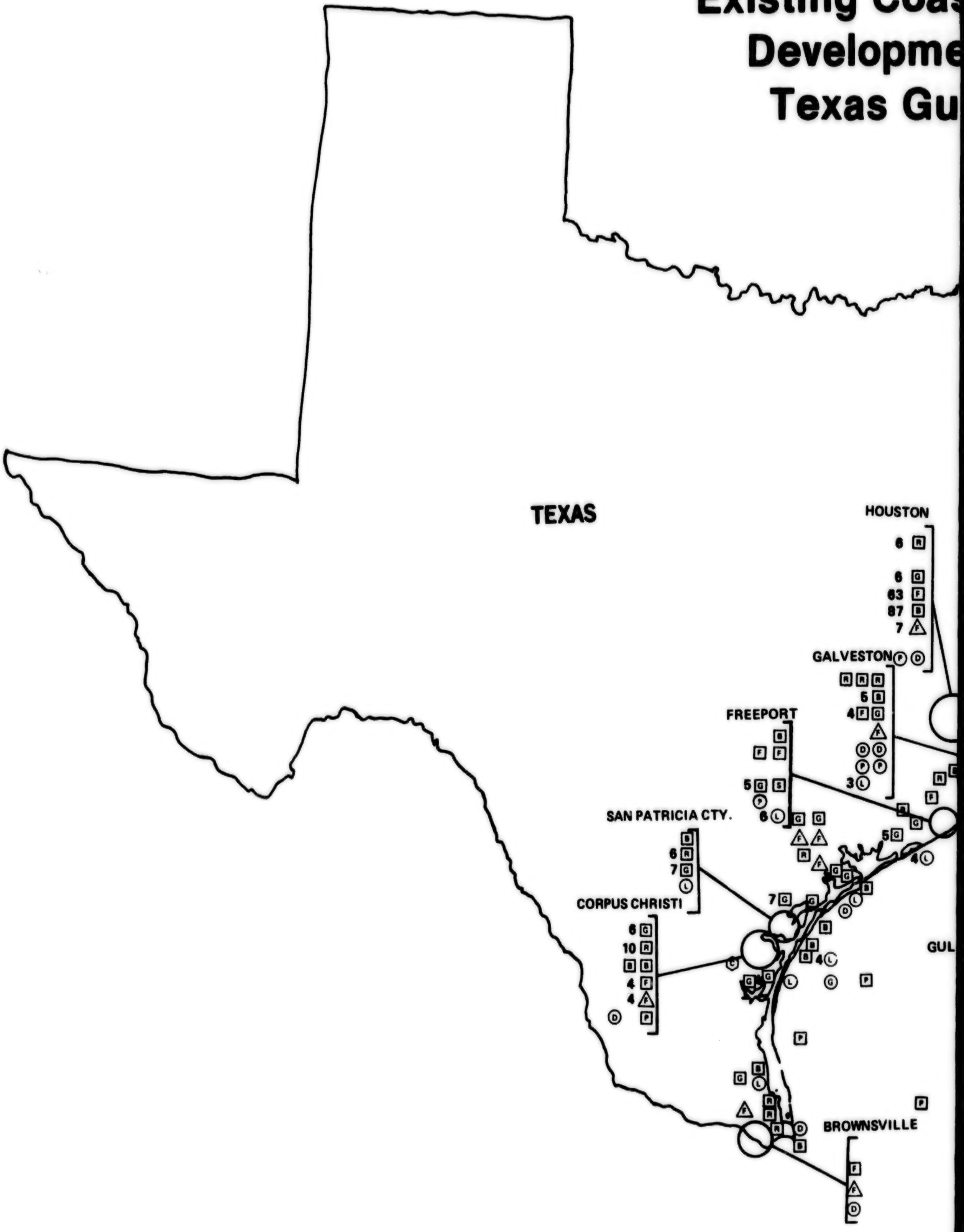

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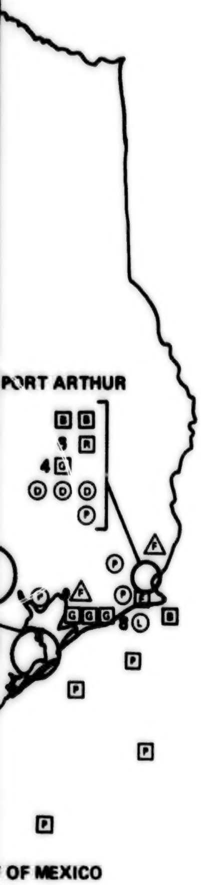

LEGEND

OIL AND GAS

□ = EXISTING

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ = EXISTING

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

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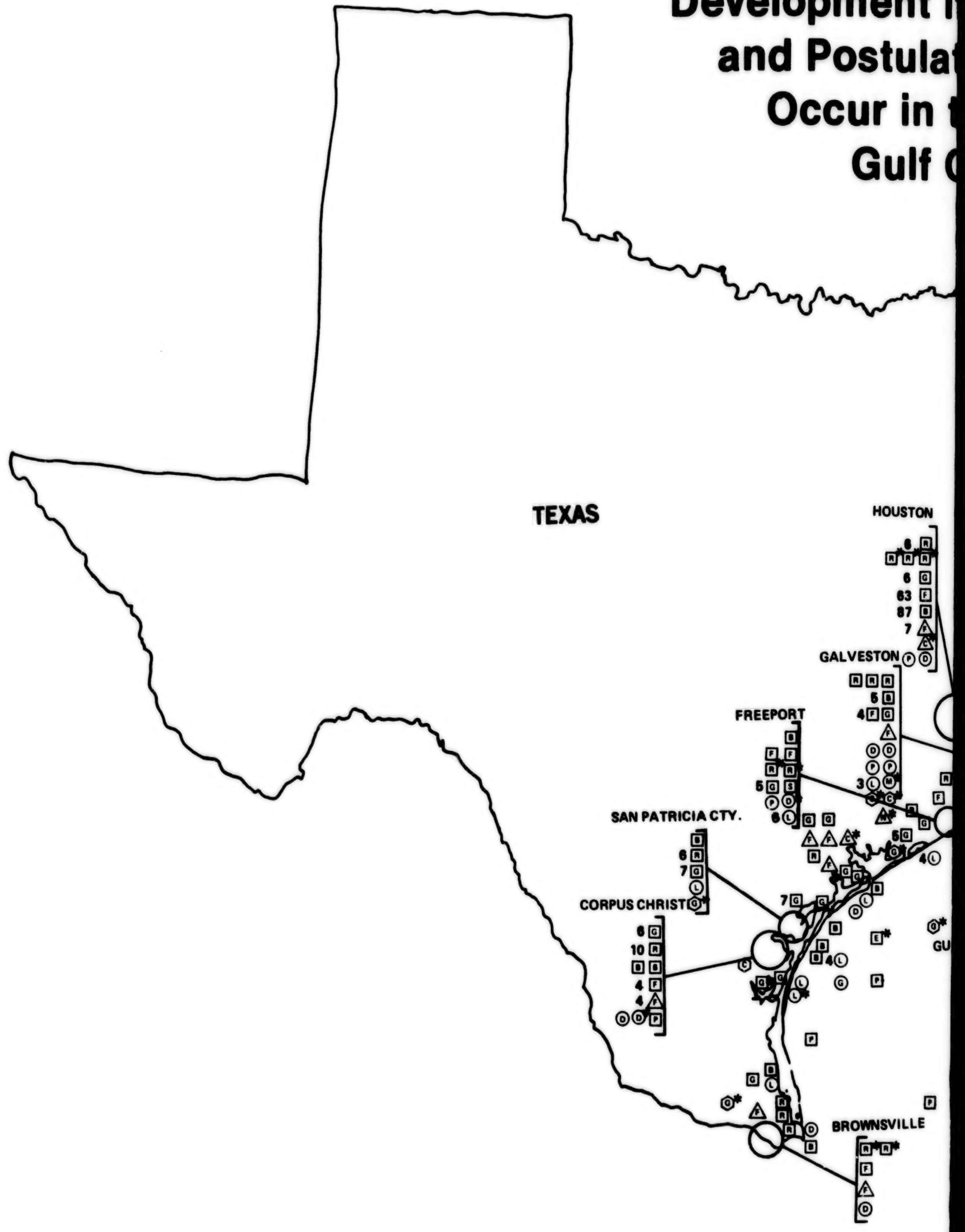

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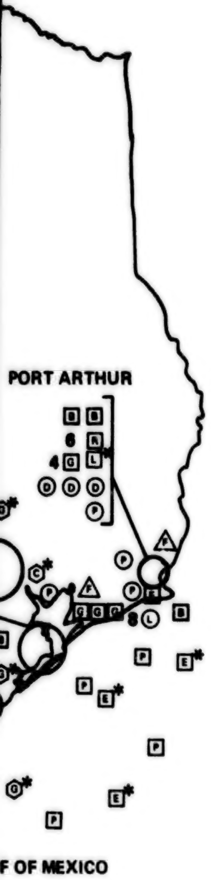

LEGEND

OIL AND GAS

☐ = EXISTING

☐* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ = EXISTING

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

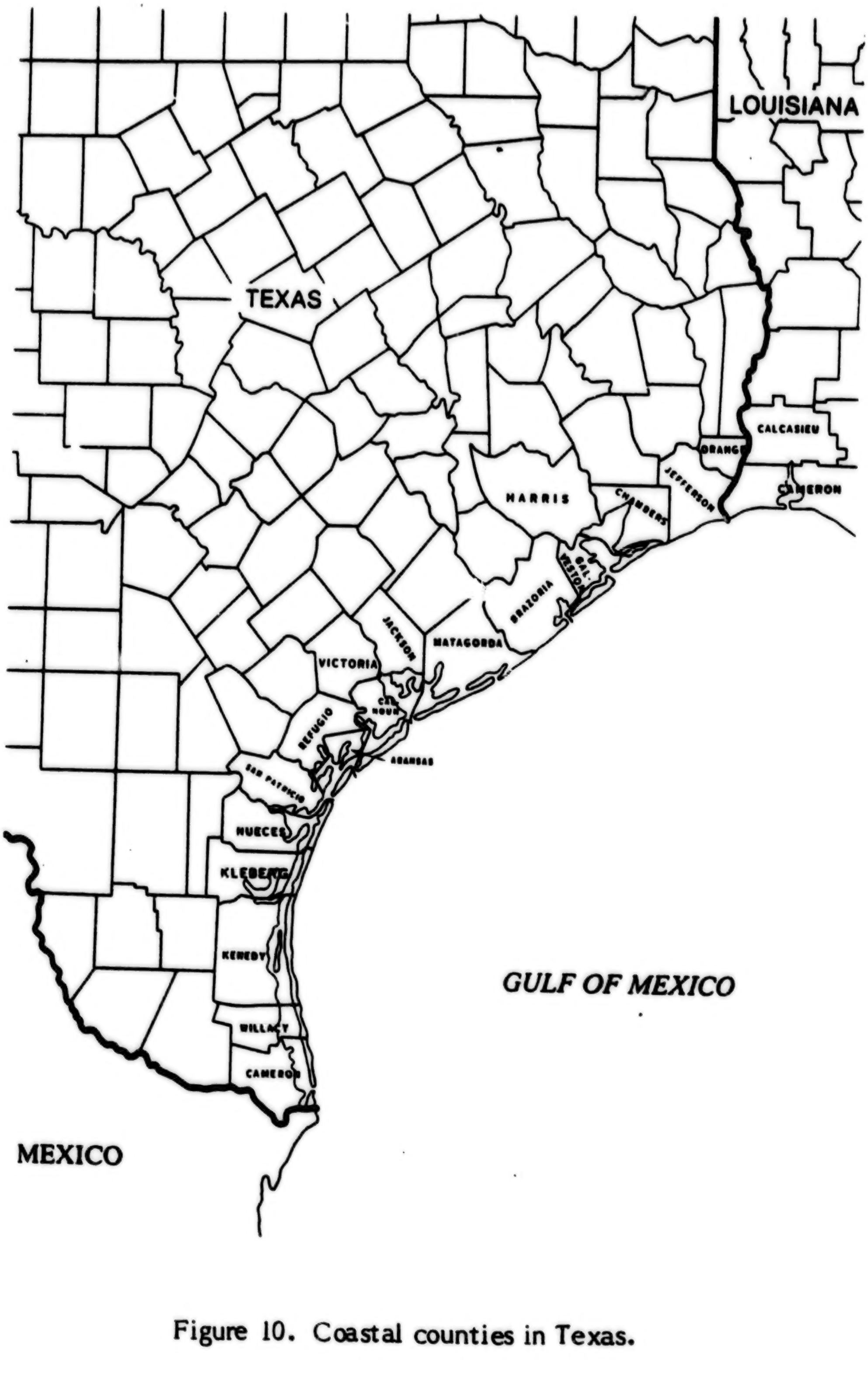

Figure 10. Coastal counties in Texas.

Table 41. All coastal energy facilities in the Texas Gulf coast area.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
2660	TX CAMERON		BROWNSVILLE	PWR	FOSL	EXIST	0
2665	TX CAMERON		LA PALMA	PWR	FOSL	EXIST	0
2670	TX CAMERON	BROWNSVILLE	DEEP WATER PORT	TRAN	DPRT	EXIST	0
2675	TX CAMERON	PORT ISABEL	DEEP WATER PORT	TRAN	DPRT	EXIST	0
2680	TX CAMERON	PORT ISABEL	OCS SERVICE IND	O/G	BASE	EXIST	0
2685	TX CAMERON	VARIOUS	3 REFINERIES	O/G	REFN	EXPAN	0
2690	TX CAMERON	BROWNSVILLE	PETRACO VALLEY REFINING	O/G	REFN	PROP	80
2695	TX CAMERON	BROWNSVILLE	BARBOUR ENERGY CO	O/G	REFN	PROP	82
2700	TX CAMERON	BROWNSVILLE	MARATHON/OCS SUPPORT	O/G	OCSR	EXIST	0
2705	TX CAMERON	WESTERN COUNTY	GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
2710	TX WILLACY	PORT MANSFIELD	SERVICE BASE	O/G	BASE	EXIST	0
2715	TX WILLACY		PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
2720	TX WILLACY	RAYMONDVILLE	MITCHELL GAS PROCESSING	O/G	GAS	EXIST	0
2725	TX KLEBERG		PIPELINE LANDFALL	TRAN	PIPE	PROP	0
2730	TX KLEBERG		PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
2735	TX KLEBERG	VARIOUS	2 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2740	TX NUECES		LON C HILL	PWR	FOSL	EXIST	0
2745	TX NUECES		NUECES BAY	PWR	FOSL	EXIST	0
2750	TX NUECES		BARNEY DAVIS	PWR	FOSL	EXIST	0
2755	TX NUECES		ROBSTOWN	PWR	FOSL	EXIST	0
2760	TX NUECES	PORT ARANSAS	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
2765	TX NUECES	CORPUS CHRISTI	4 OCS SUPPORT INDUSTRIES	O/G	OCSR	EXIST	0
2770	TX NUECES	CORPUS CHRISTI	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
2775	TX NUECES	CORPUS CHRISTI	7 REFINERIES	O/G	REFN	EXIST	0
2780	TX NUECES	CORPUS CHRISTI	3 REFINERIES	O/G	REFN	EXPAN	0
2785	TX NUECES	CORPUS CHRISTI	DEEP WATER PORT	TRAN	DPRT	EXIST	0
2790	TX NUECES	CORPUS CHRISTI	PORT/MAX 55,000 DWT	TRAN	PORT	EXIST	0
2795	TX NUECES	CORPUS CHRISTI	HARBOR ISLAND DEEPWATER PORT	TRAN	DPRT	PROP	0
2800	TX NUECES	BISHOP	SYNFUELS/SYNGAS FROM COAL	SYN	COAL	PROP	0
2805	TX NUECES	VARIOUS	4 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2810	TX NUECES	OFFSHORE	92 MILE GAS PIPELINE	TRAN	GAS	PROP	0
2815	TX NUECES	VARIOUS	6 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2820	TX SAN PATRICIO	INGLESIDE	SERVICE BASE	O/G	BASE	EXIST	0
2825	TX SAN PATRICIO	INGLESIDE	2 REFINERIES	O/G	REFN	EXIST	0
2830	TX SAN PATRICIO	INGLESIDE	4 REFINERIES	O/G	REFN	EXPAN	0
2835	TX SAN PATRICIO	BRAZOSPORT	NG PIPELINE CO	TRAN	PIPE	EXIST	0
2840	TX SAN PATRICIO	ARANSAS PASS	GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
2845	TX SAN PATRICIO	VARIOUS	7 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2850	TX REFUGIO	VARIOUS	4 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2855	TX ARANSAS	FULTON	TENNECO GAS PROCESSING PLANT	O/G	GAS	EXIST	0
2860	TX ARANSAS	ROCKPORT	SERVICE BASE	O/G	BASE	EXIST	0
2865	TX CALHOUN		JOSLIN	PWR	FOSL	EXIST	0
2870	TX CALHOUN		PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
2875	TX CALHOUN	POINT COMFORT	DEEP WATER PORT	TRAN	DPRT	EXIST	0
2880	TX CALHOUN	POWDERHORN RANCH	ALGERIA II	O/G	LNG	PROP	0
2885	TX CALHOUN	VARIOUS	2 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2890	TX CALHOUN	PORT OCONNOR	SERVICE BASE	O/G	BASE	EXIST	0
2895	TX CALHOUN	OFFSHORE	MUSTANG IS GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
2900	TX VICTORIA	BLOOMINGTON	GULF OIL	O/G	REFN	EXIST	0
2905	TX VICTORIA	COLETO CREEK	COLETO CREEK	PWR	COAL	PROP	0
2910	TX VICTORIA		VICTORIA	PWR	FOSL	EXIST	0
2915	TX VICTORIA		SAM RAYBURN	PWR	FOSL	EXIST	0
2920	TX VICTORIA	VARIOUS	2 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2925	TX MATAGORDA	BAY CITY	SOUTH TEXAS	PWR	NUKE	PROP	84
2930	TX MATAGORDA	VARIOUS	5 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
2935	TX MATAGORDA	VARIOUS	4 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
2940	TX MATAGORDA	MATAGORDA	GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
2945	TX BRAZORIA	FREEPORT	SERVICE BASE	O/G	BASE	EXIST	0
2950	TX BRAZORIA	FREEPORT	PORT/MAX 40,000 DWT	TRAN	PORT	EXIST	0
2955	TX BRAZORIA	FREEPORT	DRILLING,PIPELAYING/OCS SUPP	O/G	OCSR	EXIST	0
2960	TX BRAZORIA	ALVIN	MONSANTO	O/G	REFN	EXIST	0
2965	TX BRAZORIA	SWEENEY	PHILLIPS	O/G	REFN	EXPAN	80
2970	TX BRAZORIA	FREEPORT	OYSTER CREEK	O/G	REFN	PROP	0
2975	TX BRAZORIA	FREEPORT	DOW CHEMICAL	O/G	REFN	PROP	80
2980	TX BRAZORIA	FREEPORT, 11 MI OUT	PHILLIPS AND OTHERS	TRAN	DPRT	PROP	0
2985	TX BRAZORIA	SWEENEY	NG PROCESSING	O/G	GAS	PROP	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 41 concluded.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
2990	TX BRAZORIA	BRYAN MOUND	SPR STORAGE SITE	O/G	SFR	EXPAN	0
2995	TX BRAZORIA	LIVERPOOL	GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
3000	TX BRAZORIA	VARIOUS	6 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3005	TX BRAZORIA	VARIOUS	5 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
3010	TX BRAZORIA	LAKE JACKSON	OCS SUPPORT IND	O/G	OCSR	EXIST	0
3015	TX BRAZORIA	PEERLAND	OCS SERVICE IND	O/G	BASE	EXIST	0
3020	TX BRAZORIA	OFFSHORE	BRAZOS GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
3025	TX GALVESTON	TEXAS CITY	2 REFINERIES	O/G	REFN	EXIST	0
3030	TX GALVESTON	TEXAS CITY	TEXAS CITY REFINING	O/G	REFN	EXPAN	0
3035	TX GALVESTON	TEXAS CITY	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
3040	TX GALVESTON	TEXAS CITY	DEEPWATER PORT	TRAN	DPRT	EXIST	0
3045	TX GALVESTON	GALVESTON	DEEPWATER PORT	TRAN	DPRT	EXIST	0
3050	TX GALVESTON	GALVESTON	PELICAN IS DEEPWATER PORT	TRAN	DPRT	PROP	0
3055	TX GALVESTON	TEXAS CITY	SYNFUELS/LOW-MED BTU GAS	SYN	COAL	PROP	0
3060	TX GALVESTON	GULF COAST	SYNFUELS/MED BTU GAS	SYN	COAL	PROP	0
3065	TX GALVESTON	TEXAS CITY	ROBINSON	PWR	FOSL	EXIST	0
3070	TX GALVESTON	GALVESTON	PORT/MAX 35,000 DWT	TRAN	PORT	EXIST	0
3075	TX GALVESTON	GALVESTON	5 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
3080	TX GALVESTON	GALVESTON	4 OCS SUPPORT INDUSTRIES	O/G	OCSR	EXIST	0
3085	TX GALVESTON	VARIOUS	3 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3090	TX GALVESTON	GALVESTON	MITCHELL GAS PROCESSING PLANT	O/G	GAS	EXIST	0
3095	TX HARRIS	VARIOUS	7 POWER PLANTS	PWR	FOSL	EXIST	0
3100	TX HARRIS	HOUSTON	4 REFINERIES	O/G	REFN	EXIST	0
3105	TX HARRIS	HOUSTON	2 REFINERIES	O/G	REFN	EXPAN	0
3110	TX HARRIS	HOUSTON	NOVEX REFINING	O/G	REFN	PROP	80
3115	TX HARRIS	HOUSTON	PETROMAX	O/G	REFN	PROP	80
3120	TX HARRIS	HOUSTON	INTERCOASTAL REFINING	O/G	REFN	PROP	83
3125	TX HARRIS	HOUSTON	DEEPWATER PORT	TRAN	DPRT	EXIST	0
3130	TX HARRIS	HOUSTON	PORT/MAX 50,000 DWT	TRAN	PORT	EXIST	0
3135	TX HARRIS	VARIOUS	6 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
3140	TX HARRIS	HOUSTON	63 OCS SUPPORT INDUSTRIES	O/G	OCSR	EXIST	0
3145	TX HARRIS	HOUSTON	85 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
3150	TX HARRIS	CHANNELVIEW	2 OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
3154	TX HARRIS	LAPORTE	INDIRECT COAL LIQUIFACTION	SYN	COAL	PROP	0
3155	TX HARRIS	BAYTOWN	EXXON/SYNFUELS	SYN	COAL	PROP	0
3160	TX HARRIS	BAYTOWN	PORT/MAX 50.000 DWT	TRAN	PORT	EXIST	0
3165	TX HARRIS	UNSITED	POWER PLANT	PWR	COAL	PROP	85
3170	TX HARRIS	NORTHERNCOUNTY	GEOTHERMAL FAIRWAY	OTHR	GEO	PROP	0
3175	TX CHAMBERS		CEDAR BAYOU	PWR	FOSL	EXIST	0
3180	TX CHAMBERS		3 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
3185	TX JEFFERSON	PORT ARTHUR	4 REFINERIES	O/G	REFN	EXIST	0
3190	TX JEFFERSON	PORT ARTHUR	2 REFINERIES	O/G	REFN	EXPAN	0
3195	TX JEFFERSON	PORT ARTHUR	3 DEEPWATER PORTS	TRAN	DPRT	EXIST	0
3200	TX JEFFERSON	PORT ARTHUR	PORT/MAX 40,000 DWT	TRAN	PORT	EXIST	0
3201	TX JEFFERSON	PORT ARTHUR	COAL EXPORT FACILITIES	TRAN	COAL	EXIST	0
3205	TX JEFFERSON	PORT ARTHUR	LNG PLANT	O/G	LNG	POST	0
3210	TX JEFFERSON	PORT ARTHUR	OCS SERVICE INDUSTRIES	O/G	BASE	EXIST	0
3215	TX JEFFERSON	BEAUMONT	PORT/MAX 30,000 DWT	TRAN	PORT	EXIST	0
3220	TX JEFFERSON	PORT NECHES	NECHES	PWR	FOSL	EXIST	0
3225	TX JEFFERSON	GROVES	OCS SERVICE IND	O/G	BASE	EXIST	0
3230	TX JEFFERSON	VARIOUS	4 GAS PROCESSING PLANTS	O/G	GAS	EXIST	0
3235	TX JEFFERSON	NEDERLAND	OCS SUPPORT IND	O/G	OCSR	EXIST	0
3240	TX JEFFERSON	NEDERLAND	PORT/MAX 30,000 DWT	TRAN	PORT	EXIST	0
3245	TX JEFFERSON	SABINE PASS	SERVICE BASE	O/G	BASE	EXIST	0
3250	TX JEFFERSON	VARIOUS	8 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3255	TX OCS	WESTERN GULF	OCS PRODUCTION	O/G	PLAT	EXIST	0
3260	TX OCS	WESTERN GULF	OCS LEASE SALE 62	O/G	EXPL	PROP	80
3265	TX OCS	HIGH ISLAND AREA	GAS PIPELINE	TRAN	GAS	PROP	0
3270	TX GULF COAST	ONSHORE COASTAL ZONE	14,108 WELLS	O/G	WELL	EXIST	0

[a] Key to computer generated list is located in Appendix.

REGION 1 - PACIFIC COAST (CA, OR, WA)

The major energy issue in California is OCS leasing for oil and gas exploration and production. Currently, there is offshore development in the Santa Barbara Channel, San Pedro Bay and near shore areas in Long Beach and Huntington Beach. Additional infrastructure, including pipelines and processing facilities, is proposed and under construction in Santa Barbara and San Pedro. Northern and Central California is essentially a frontier area for OCS exploration with little or no infrastructure in place, and any support base activities would be competing with the fishing industry for limited harbor facilities in some areas.

Some OCS support industry, particularly platform fabrication facilities, have been proposed in the Puget Sound and Columbia River areas, to supply the Alaska OCS development, raising some socio-economic concerns because of the rural nature of the areas, and the natural values there.

Onshore oil and gas production has been occurring in Santa Barbara, Los Angeles, and Orange Counties in Southern California. There is some potential in areas of Oregon and Washington near the Columbia River, as well as in Mendocino County in Northern California; however, development in these areas is likely to be slow if at all, because of the rural nature of the communities nearby, raising "boom-bust" concerns, and local opposition (Oregon Department of Energy, 1980).

The refinery centers on the West Coast are Los Angeles and the San Francisco Bay area in California, Portland, Oregon, and the Puget Sound area in Washington. The California refineries handle as much crude as does Louisiana, although most of it is foreign crude, which is received by tanker. Most of California's supply of domestic crude is received through the pipeline infrastructure. Washington refines mostly Canadian crude which is shipped via the Transmountain Pipeline from Alberta, as well as by tanker. Even though Washington and California are likely to be receiving or transshipment centers for Alaskan crude oil, no new refineries are planned there. Two new refineries are postulated in the Portland area.

The shipment of Alaskan crude has become a major issue in Washington. The primary plan at this time is the Northern Tier pipeline proposal, with tanker ports at Port Angeles, a pipeline under Puget Sound coming ashore near Whidbey Island and continuing across the Northern Tier States to Clearbrook, Minnesota. Washington has an Energy Facility Siting Evaluation Council which, during its adversary hearing process, has been presented with several environmental concerns about the proposal. The route passes through some high priority waterfowl areas and anadromous fish crossings, as well as dangerous current patterns in the Puget Sound. National policy has placed a high priority on approval of some transshipment proposal, so this issue has shaped up into a considerable conflict. Increased transportation of oil by tanker throughout the West Coast brings increased potential for oil spills and accidents.

Power plants on the West Coast are fueled mostly by oil and gas, with nuclear plants operating in Humboldt and San Diego Counties, California, and Rainier, Oregon. Nuclear plants are proposed or under construction in San Luis Obispo, California, and Skagit and Grays Harbor, Washington. There has been concern expressed over the

Trojan nuclear plant in Rainier, because of its proximity to the active Mt. St. Helens volcano. Coal-fired power plants are proposed in the San Francisco Bay area and in Lincoln County, Oregon. The rest of the proposed electrical capacity expansion is in the form of hydroelectric power, mostly in the Pacific Northwest. California's policy is to prefer clustering of facilities in the coastal zone, rather than siting in undeveloped areas, and the state's Energy Commission has evaluated the coastal power plants for their expansion potential as a preference over new power plants (California Energy Commission, 1980).

California has expressed a policy to limit LNG facilities to one terminal in the coastal zone, in a relatively unpopulated area. The Point Conception site has encountered much opposition for environmental and cultural reasons, and although the major permits have been granted, it is as yet unclear as to when, if ever, construction may start. There is currently a small LNG facility in Newport, Oregon, with some additional construction planned there. Another LNG terminal has been postulated for Astoria, Oregon.

The anadromous fisheries of the Pacific Northwest have been given the highest priority in the FWS Important Resource Problems ranking. The migratory waterfowl and marine birds of the Pacific Flyway have also rated high among resource concerns of the West Coast. There are few remaining coastal wetlands in the Southern California area, and all of them are under some threat from energy, industrial or residential development. Many important estuaries are located in Oregon and Washington, particularly the Columbia River and Puget Sound areas.

All three of the states in this region have developed programs for siting, approval, and identification of mitigation measures for energy facility siting, often funded through the Coastal Energy Impact Program (CEIP). As a result, most development must have long lead times and the states carefully scrutinize most proposals in terms of economics and environment.

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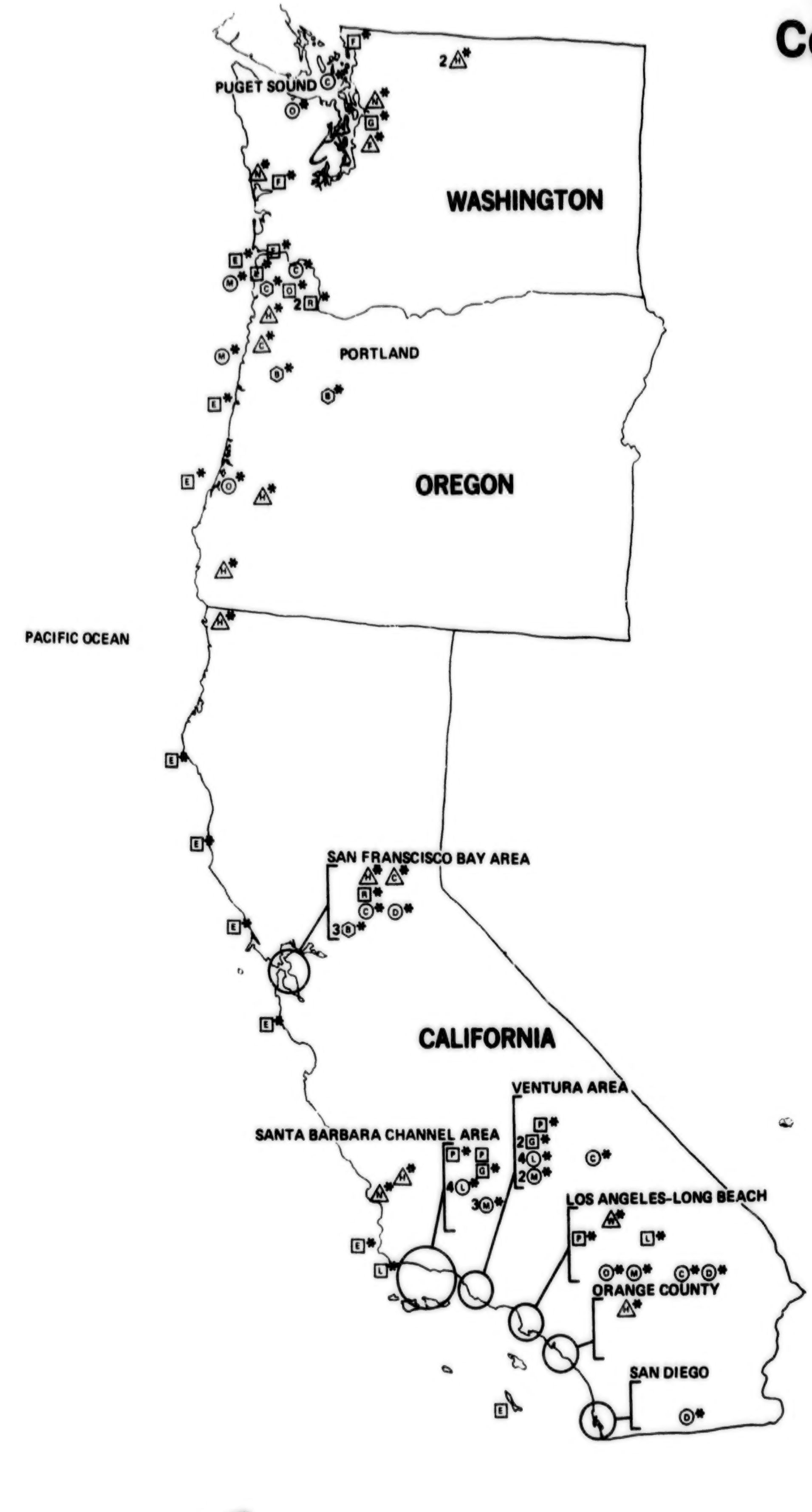

PUGET SOUND
WASHINGTON
PORTLAND
OREGON
PACIFIC OCEAN
SAN FRANSCISCO BAY AREA
CALIFORNIA
VENTURA AREA
SANTA BARBARA CHANNEL AREA
LOS ANGELES-LONG BEACH
ORANGE COUNTY
SAN DIEGO

MAP 13

roposed and Postulated astal Energy Development on the Pacific Coast

LEGEND

OIL AND GAS

□* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

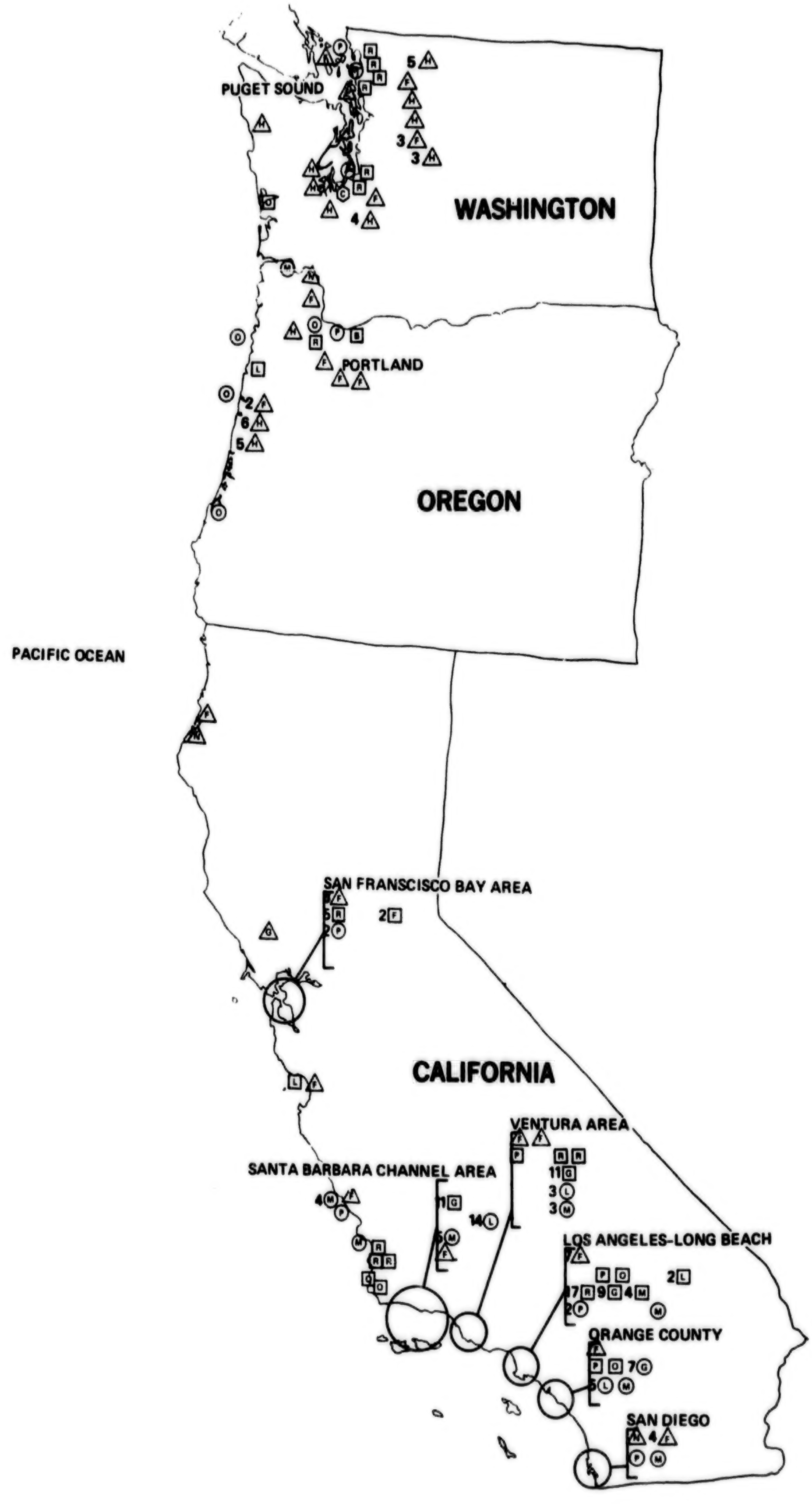
OTHER

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

Ex


PUGET SOUND
WASHINGTON
PORTLAND
OREGON
PACIFIC OCEAN
SAN FRANSCISCO BAY AREA
CALIFORNIA
VENTURA AREA
SANTA BARBARA CHANNEL AREA
LOS ANGELES-LONG BEACH
ORANGE COUNTY
SAN DIEGO

MAP 14
isting Coastal Energy Development on the Pacific Coast

LEGEND

OIL AND GAS

□ = EXISTING

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ = EXISTING

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ = EXISTING

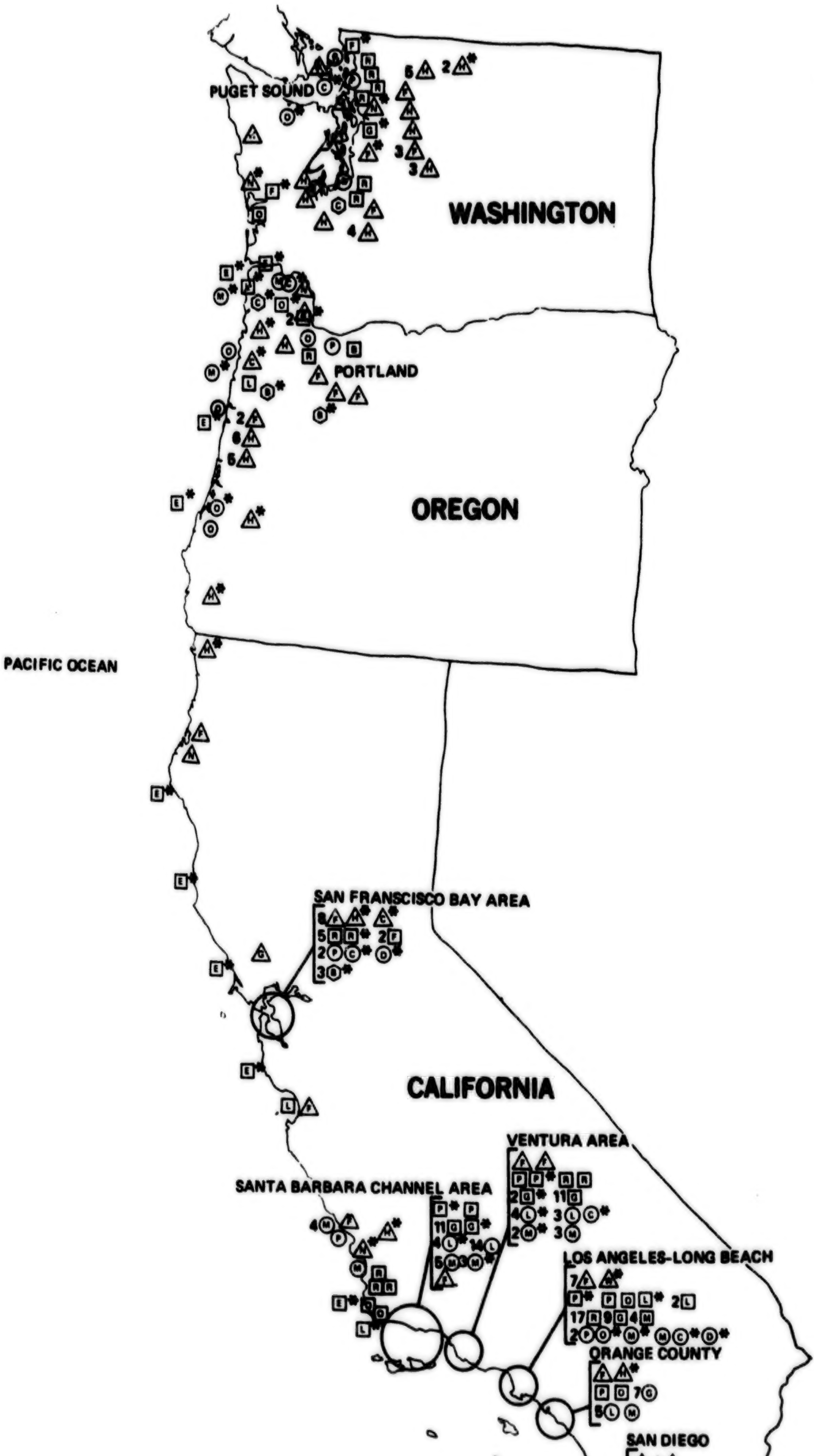
L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ = EXISTING

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT


PUGET SOUND
WASHINGTON
PORTLAND
OREGON
PACIFIC OCEAN
SAN FRANSCISCO BAY AREA
CALIFORNIA
VENTURA AREA
SANTA BARBARA CHANNEL AREA
LOS ANGELES-LONG BEACH
ORANGE COUNTY
SAN DIEGO

MAP 15
Total Coastal Energy Development if All oposed and Postulated rojects Occur on the Pacific Coast

LEGEND

OIL AND GAS

□ - EXISTING

□* - PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ - EXISTING

△* - PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ - EXISTING

○* - PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ - EXISTING

⬡* - PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

A NUMBER PRECEDING THE FACILITY SYMBOL INDICATES THE NUMBER OF FACILITIES IN AREAS OF HEAVY DEVELOPMENT

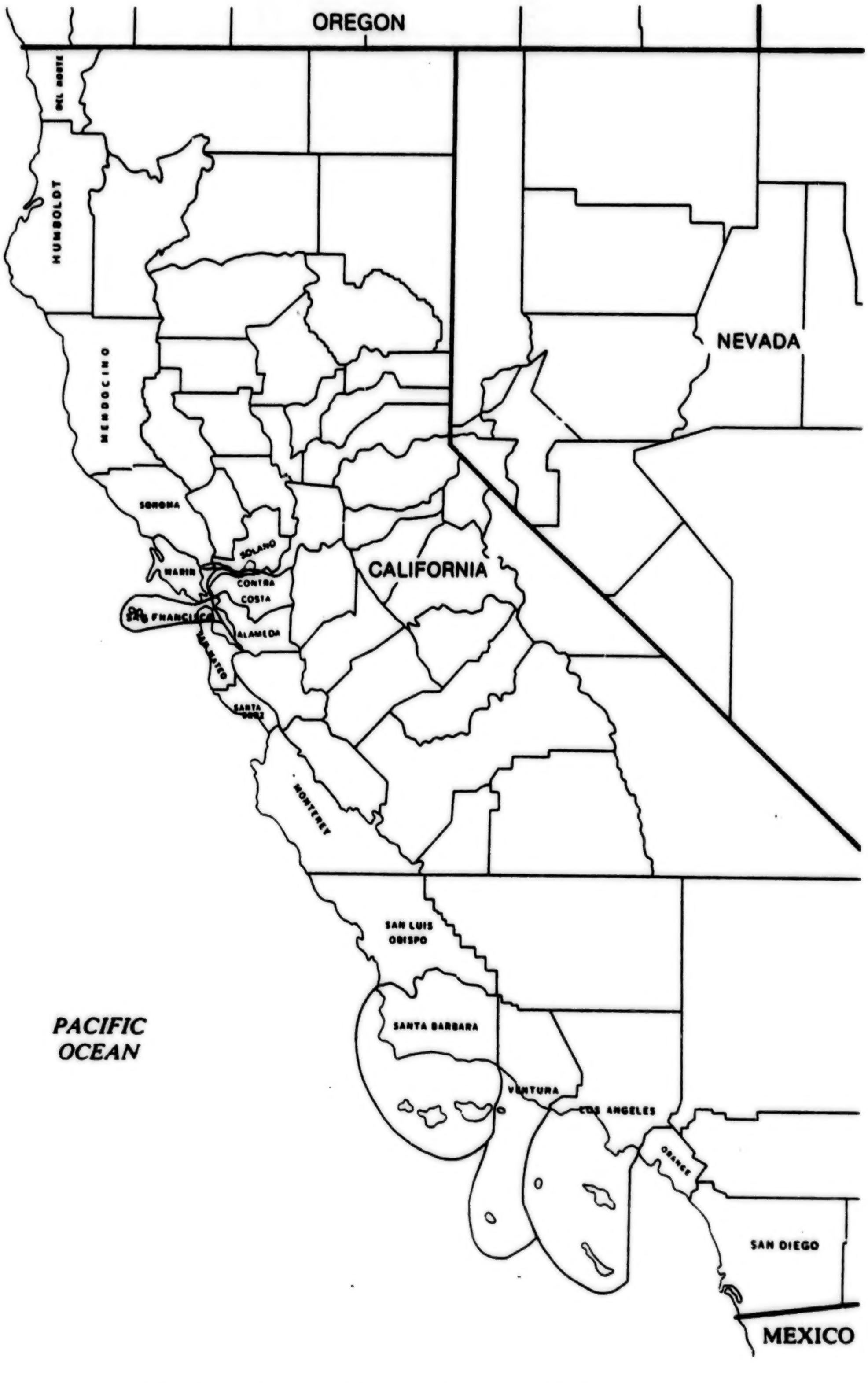


Figure 11. Coastal counties in California.

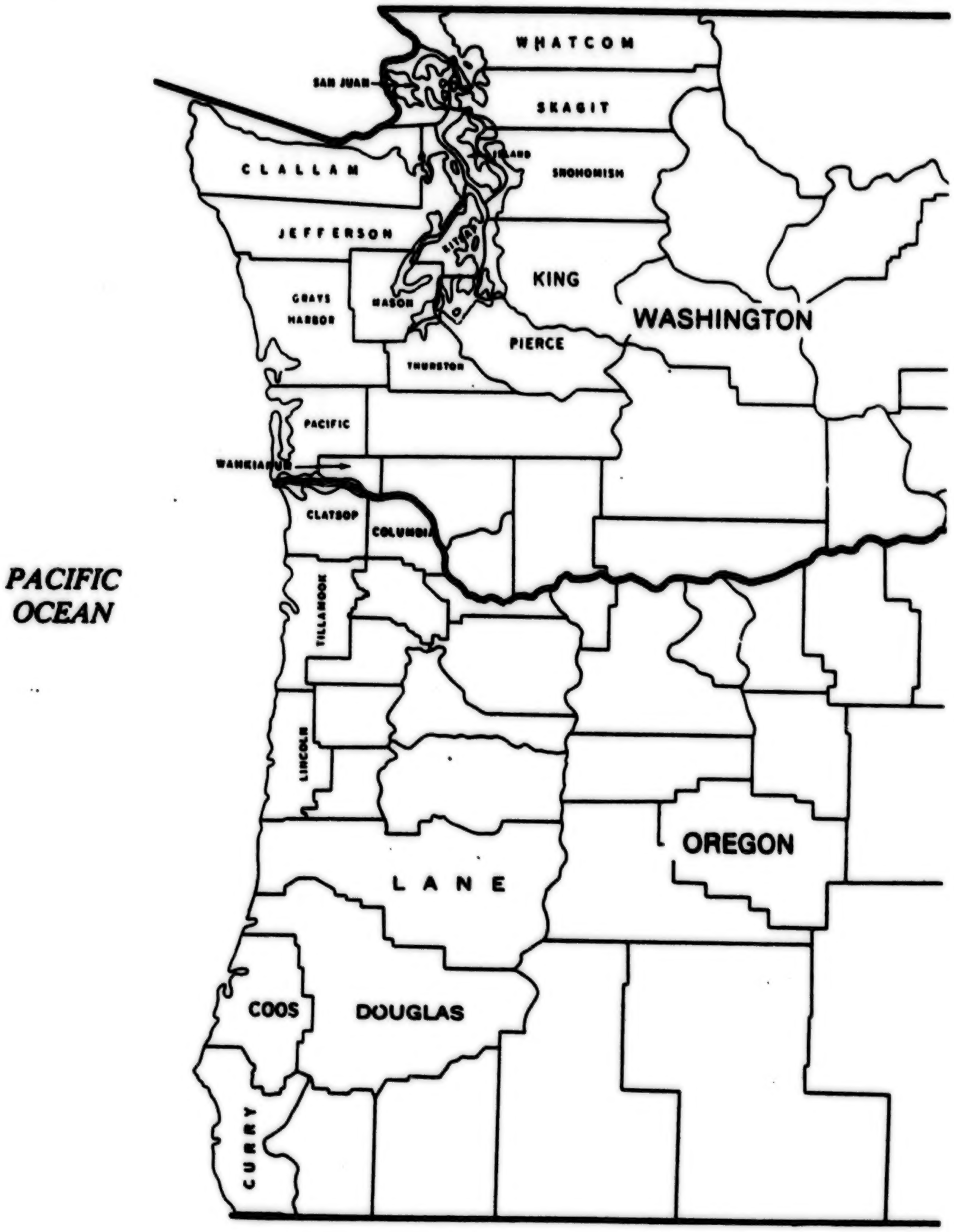


Figure 12. Coastal counties in the Pacific Northwest.

Table 42. All coastal energy facilities in the West Coast area.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
3300	CA DEL NORTE		MARYSVILLE	PWR	HYD	PROP	80
3305	CA HUMBOLDT	EUREKA	HUMBOLDT BAY	PWR	FOSL	EXIST	0
3310	CA HUMBOLDT	EUREKA	HUMBOLDT BAY	PWR	NUKE	EXIST	0
3315	CA SONOMA		GEYSERS	PWR	GEO	EXPAN	82
3320	CA SOLANO	VALLEJO	KAISER STEEL PLATFORM FAB	O/G	OCSR	EXIST	0
3325	CA SOLANO	VALLEJO	PETER KIEWITT/OCS SUPP	O/G	OCSR	EXIST	0
3330	CA SOLANO	WINTERS	MONTICELLO	PWR	HYD	PROP	0
3335	CA SOLANO	COLLINSVILLE	MONTEZUMA	PWR	COAL	PROP	0
3340	CA CONTRA COSTA		AVON STEAM	PWR	FOSL	EXIST	0
3345	CA CONTRA COSTA	ANTIOCH	CONTRA COSTA	PWR	FOSL	EXIST	0
3350	CA CONTRA COSTA	PITTSBURG	PITTSBURG	PWR	FOSL	EXIST	0
3355	CA CONTRA COSTA	RODEO	OLEUM	PWR	FOSL	EXIST	0
3360	CA CONTRA COSTA	BENICIA	SYNFUELS/ETHANOL FROM CORN	SYN	BIOM	POST	0
3365	CA CONTRA COSTA	MARTINEZ	SHELL OIL	O/G	REFN	EXIST	0
3370	CA CONTRA COSTA	MARTINEZ	URICH REFINERY	O/G	REFN	EXIST	0
3375	CA CONTRA COSTA	MARTINEZ	UCO REFINERY	O/G	REFN	PROP	81
3380	CA CONTRA COSTA	MARTINEZ	MARTINEZ	PWR	FOSL	EXIST	0
3385	CA CONTRA COSTA	RICHMOND	PORT/MAX 35.000 DWT	TRAN	PORT	EXIST	0
3390	CA CONTRA COSTA	RICHMOND	CHEVRON REFINERY	O/G	REFN	EXIST	0
3395	CA CONTRA COSTA	HERCULES	PACIFIC REFINERY	O/G	REFN	EXIST	0
3400	CA CONTRA COSTA	RODEO	UNION-OLEUM	O/G	REFN	EXIST	0
3405	CA ALAMEDA	OAKLAND	PORT/MAX	TRAN	PORT	EXIST	0
3410	CA ALAMEDA	OAKLAND	OAKLAND	PWR	FOSL	EXIST	0
3415	CA ALAMEDA	OAKLAND	SYNFUELS/METHANE FROM WASTE	SYN	BIOM	POST	0
3420	CA SAN FRANCISCO	SAN FRANCISCO	HUNTERS POINT	PWR	FOSL	EXIST	0
3425	CA SAN FRANCISCO	SAN FRANCISCO	POTRERO	PWR	FOSL	EXIST	0
3430	CA SAN FRANCISCO	PIER 94/PORT OF SF	POTENTIAL COAL EXPORT TERMINAL	TRAN	COAL	POST	0
3435	CA SAN FRANCISCO	SAN FRANCISCO	PORT/MAX 55,000 DWT	TRAN	PORT	EXIST	0
3440	CA SAN FRANCISCO	SN FRANCISCO BAY	POTENTIAL DEEPWATER PORT	TRAN	DFRT	POST	0
3441	CA SANTA CLARA		GAS FROM LANDFILL	SYN	BIOM	POST	0
3442	CA SANTA CLARA	SUNNYVALE	METHANE FROM WATER TREAT	SYN	BIOM	PROP	0
3445	CA MONTEREY	MOSS LANDING	MOSS LANDING	PWR	FOSL	EXIST	0
3450	CA MONTEREY	MOSS LANDING	NEW MARINE TERMINAL	TRAN	MTER	PROP	0
3455	CA MONTEREY	SAN ARDO	COAL GASIFICATION/COGENERATION	SYN	COAL	PROP	0
3460	CA SN LUIS OBISPO		SAN LUIS OBISPO	PWR	HYD	PROP	82
3465	CA SN LUIS OBISPO		DIABLO CANYON	PWR	NUKE	PROP	80
3470	CA SN LUIS OBISPO	MORRO BAY	MORRO BAY	PWR	FOSL	EXIST	0
3475	CA SN LUIS OBISPO	PORT SAN LUIS	MARINE TERMINAL/OIL	TRAN	MTER	EXIST	0
3480	CA SN LUIS OBISPO	ESTERO BAY	PORT/MAX 110.000 DWT	TRAN	PORT	EXIST	0
3485	CA SN LUIS OBISPO	ESTERO BAY	CHEVRON	TRAN	MTER	EXIST	0
3490	CA SN LUIS OBISPO	ESTERO BAY	PG/E	TRAN	MTER	EXIST	0
3495	CA SN LUIS OBISPO	ESTERO BAY	TEXACO	TRAN	MTER	EXIST	0
3500	CA SN LUIS OBISPO	ESTERO BAY	US NAVY	TRAN	MTER	EXIST	0
3505	CA SN LUIS OBISPO	SANTA MARIA RIVER	UNION OIL	O/G	REFN	EXIST	0
3510	CA SANTA BARBARA	SANTA BARBARA CHANNL	OCS PRODUCTION	O/G	PLAT	EXIST	0
3515	CA SANTA BARBARA	OCS	OCS LEASE SALE 53	O/G	EXPL	PROP	81
3520	CA SANTA BARBARA	SANTA BARBARA CHANNL	OCS LEASE SALE 68	O/G	EXPL	PROP	83
3525	CA SANTA BARBARA	VARIOUS	14 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3530	CA SANTA BARBARA	VARIOUS	4 PIPELINE LANDFALLS	TRAN	PIPE	PROP	0
3535	CA SANTA BARBARA	VARIOUS	5 MARINE TERMINALS	TRAN	MTER	EXIST	0
3540	CA SANTA BARBARA	VARIOUS	3 MARINE TERMINALS	TRAN	MTER	PROP	0
3545	CA SANTA BARBARA	VARIOUS	11 GAS TREATMENT PLANTS	O/G	GAS	EXIST	0
3550	CA SANTA BARBARA	LAS FLORES CYN	TREATMENT FACILITY	O/G	GAS	PROP	0
3555	CA SANTA BARBARA	SANTA MARIA	DOUGLAS REFINERY	O/G	REFN	EXIST	0
3560	CA SANTA BARBARA	GUADALUPE DUNES	OIL/GAS PRODUCTION	O/G	WELL	EXIST	0
3565	CA SANTA BARBARA	ELWOOD	ELWOOD	PWR	FOSL	EXIST	0
3570	CA SANTA BARBARA	GAVIOTA	OIL/GAS PRODUCTION	O/G	WELL	EXIST	0
3575	CA SANTA BARBARA	POINT CONCEPTION	LNG PLANT	O/G	LNG	PROP	0
3580	CA SANTA BARBARA	SANTA MARIA	QUAD REFINERY	O/G	REFN	EXPAN	82
3585	CA VENTURA	VENTURA	MANDALAY	PWR	FOSL	EXIST	0
3590	CA VENTURA	VENTURA	ORMOND BEACH	PWR	FOSL	EXIST	0
3595	CA VENTURA	SANTA BARBARA CHANNL	OIL/GAS PRODUCTION	O/G	PLAT	EXIST	0
3600	CA VENTURA	SANTA BARBARA CHANNL	OCS LEASE SALE 68	O/G	EXPL	PROP	83
3605	CA VENTURA	VARIOUS	3 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3610	CA VENTURA	VARIOUS	4 PIPELINE LANDFALLS	TRAN	PIPE	PROP	0
3615	CA VENTURA	VARIOUS	3 MARINE TERMINALS	TRAN	MTER	EXIST	0
3620	CA VENTURA	VARIOUS	2 MARINE TERMINALS	TRAN	MTER	PROP	0
3625	CA VENTURA	VARIOUS	11 TREATMENT PLANTS	O/G	GAS	EXIST	0
3630	CA VENTURA	MANDALAY BEACH	2 TREATMENT PLANTS	O/G	GAS	PROP	81

Continued

[a] Key to computer generated list is located in Appendix.

Table 42 continued.

No.	State / county		City / location	Facility name / description	Type	Code[a]	Status	Year
3635	CA	VENTURA	OXNARD	BOEING COAL SLURRY PIPE	TRAN	COAL	PROP	86
3645	CA	VENTURA	VENTURA	USA PETROLEUM	O/G	REFN	EXIST	0
3647	CA	VENTURA	OXNARD	OXNARD REFINING	O/G	REFN	EXIST	0
3650	CA	LOS ANGELES	EL SEGUNDO	EL SEGUNDO	PWR	FOSL	EXIST	0
3651	CA	LOS ANGELES		GAS FROM LANDFILL	SYN	BIOM	POST	0
3652	CA	LOS ANGELES	GARDENA	WASTE FOR ELECTRICITY	SYN	BIOM	PROP	0
3653	CA	LOS ANGELES	SAN FERNANDO	LANDFILL GAS RECOVERY	SYN	BIOM	PROP	0
3655	CA	LOS ANGELES	EL SEGUNDO	SCATTERGOOD	PWR	FOSL	EXIST	0
3660	CA	LOS ANGELES	REDONDO BEACH	REDONDO BEACH	PWR	FOSL	EXIST	0
3665	CA	LOS ANGELES	LONG BEACH HARBOR	HARBOR	PWR	FOSL	EXIST	0
3670	CA	LOS ANGELES	LONG BEACH HARBOR	LONG BEACH	PWR	FOSL	EXIST	0
3675	CA	LOS ANGELES	LONG BEACH	ALAMITOS	PWR	FOSL	EXIST	0
3680	CA	LOS ANGELES	LONG BEACH	HAYNES	PWR	FOSL	EXIST	0
3685	CA	LOS ANGELES	LONG BEACH	2 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3690	CA	LOS ANGELES	LONG BEACH	PIPELINE LANDFALL	TRAN	PIPE	PROP	81
3695	CA	LOS ANGELES	EL SEGUNDO	CHEVRON/4 MARINE TERMINALS	TRAN	MTER	EXIST	0
3700	CA	LOS ANGELES	VARIOUS	9 TREATMENT PLANTS	O/G	GAS	EXIST	0
3705	CA	LOS ANGELES	VARIOUS	17 REFINERIES	O/G	REFN	EXIST	0
3710	CA	LOS ANGELES	LOS ANGELES HARBOR	PORT/MAX 110,000 DWT	TRAN	PORT	EXIST	0
3715	CA	LOS ANGELES	LONG BEACH	OIL DISTRIBUTION FACILITY	TRAN	OIL	PROP	80
3720	CA	LOS ANGELES	LONG BEACH	OFFSHORE OIL/GAS PRODUCTION	O/G	PLAT	EXIST	0
3725	CA	LOS ANGELES	LONG BEACH	OCS LEASE SALE 68	O/G	EXPL	PROP	83
3730	CA	LOS ANGELES	VARIOUS	ONSHORE OIL/GAS PRODUCTION	O/G	WELL	EXIST	0
3735	CA	LOS ANGELES	UNSITED	SO CAL EDISON/HYDROPOWER	PWR	HYD	PROP	0
3740	CA	LOS ANGELES	UNSITED	SO CAL EDISON/FUEL CELLS-COGEN	PWR	COGN	PROP	0
3745	CA	LOS ANGELES	UNSITED	SO CAL EDISON/SOLAR	FWR	SOL	PROP	0
3750	CA	LOS ANGELES	UNSITED	SO CAL EDISON/WINDMILLS	PWR	WIND	PROP	80
3755	CA	LOS ANGELES	LONG BEACH	PORT/MAX 120,000 DWT	TRAN	PORT	EXIST	0
3760	CA	LOS ANGELES	LONG BEACH	ARCO TANKER TERMINAL	TRAN	MTER	PROP	0
3765	CA	LOS ANGELES	LONG BEACH	MACMILLAN TERMINAL	TRAN	MTER	EXIST	0
3769	CA	LOS ANGELES	LOS ANGELES HARBOR	COAL EXPORT FACILITIES	TRAN	COAL	EXIST	0
3770	CA	LOS ANGELES	LONG BEACH	COAL EXPORT FACILITIES	TRAN	COAL	EXPAN	82
3775	CA	LOS ANGELES	HARBOR	POTENTIAL DEEPWATER PORT SITE	TRAN	DPRT	POST	0
3780	CA	ORANGE	HUNTINGTON BEACH	HUNTINGTON	PWR	FOSL	EXIST	0
3785	CA	ORANGE	VARIOUS	5 PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
3790	CA	ORANGE	HUNTINGTON BEACH	GULF	TRAN	MTER	EXIST	0
3795	CA	ORANGE	VARIOUS	7 TREATMENT PLANTS	O/G	GAS	EXIST	0
3800	CA	ORANGE	HUNTINGTON BEACH	ONSHORE OIL/GAS PRODUCTION	O/G	WELL	EXIST	0
3805	CA	ORANGE	HUNTINGTON BEACH	OFFSHORE O/G PRODUCTION	O/G	PLAT	EXIST	0
3810	CA	ORANGE	YORBA LINDA	YORBA LINDA HYDRO	PWR	HYD	PROP	81
3815	CA	ORANGE	LAGUNA BEACH	KELP BIOMASS FARM	SYN	BIOM	EXIST	0
3820	CA	SAN DIEGO	SAN ONOFRE	SAN ONOFRE	PWR	NUKE	EXPAN	81
3825	CA	SAN DIEGO	ENCINA	SDG/E MARINE TERMINAL	TRAN	MTER	EXIST	0
3830	CA	SAN DIEGO	ENCINA	ENCINA	PWR	FOSL	EXIST	0
3835	CA	SAN DIEGO	SAN DIEGO	STATION B	PHR	FOSL	EXIST	0
3840	CA	SAN DIEGO	SAN DIEGO	SILVERGATE	PWR	FOSL	EXIST	0
3845	CA	SAN DIEGO	SAN DIEGO	SOUTH BAY	PWR	FOSL	EXIST	0
3846	CA	SAN DIEGO	SAN DIEGO	WASTE FOR STEAM/ELECTRICITY	SYN	BIOM	PROP	0
3850	CA	SAN DIEGO	SAN DIEGO	PORT/MAX 35,000 DWT	TRAN	PORT	EXIST	0
3855	CA	SAN DIEGO	SAN DIEGO	POTENTIAL DEEPWATER PORT SITE	TRAN	DPRT	POST	0
3860	OR	MULTNOMAH	PORTLAND	OILTANKER DRYDOCKS	O/G	BASE	EXIST	0
3865	OR	MULTNOMAH	PORTLAND	CHEVRON REFINERY	O/G	REFN	EXIST	0
3870	OR	MULTNOMAH	PORTLAND	PORT/MAX 35,000 DWT	TRAN	PORT	EXIST	0
3871	OR	MULTNOMAH	PORTLAND	POTENTIAL COAL EXPORT	TRAN	COAL	POST	0
3875	OR	MULTNOMAH	PORTLAND	SYNFUELS/GAS FROM WASTE	SYN	BIOM	POST	0
3880	OR	MULTNOMAH	PORTLAND	LINCOLN STREET	PWR	FOSL	EXIST	0
3885	OR	MULTNOMAH	PORTLAND	HARBORTON	PWR	FOSL	EXIST	0
3890	OR	MULTNOMAH	PORTLAND	STATION L	PWR	FOSL	EXIST	0
3895	OR	COLUMBIA	RAINIER	TROJAN	PWR	NUKE	EXIST	0
3900	OR	COLUMBIA	CLATSKANIE	BEAVER	PHR	FOSL	EXIST	0
3905	OR	COLUMBIA		GREEN SPRINGS	PWR	HYD	EXIST	0
3910	OR	COLUMBIA	PORT WESTWARD	GATX OIL STORAGE	TRAN	OIL	PROP	0
3915	OR	COLUMBIA	RAINIER	CASCADE ENERGY CORP	O/G	REFN	PROP	0
3920	OR	COLUMBIA		COLUMBIA INDEP CORP	O/G	REFN	POST	0
3925	OR	COLUMBIA	PORT WESTWARD	POTENTIAL COAL EXPORT TERMINAL	TRAN	COAL	POST	0
3930	OR	COLUMBIA	CLATSKANIE	OIL TERMINAL	TRAN	MTER	EXIST	0
3935	OR	COLUMBIA	MIST	GAS EXPLORATION/PRODUCTION	O/G	WELL	EXIST	0
3940	OR	COLUMBIA	MIST	GAS STORAGE FACILITY	O/G	GAS	PROP	0
3945	OR	CLATSOP	WARRENTON	BROWN/ROOT PLATFORM FAB	O/G	OCSR	PROP	0
3950	OR	CLATSOP	ASTORIA	OIL TERMINALS	TRAN	MTER	EXIST	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 42 concluded.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
3951	OR CLATSOP	ASTORIA	POTENTIAL COAL EXPORT	TRAN	COAL	POST	0
3955	OR CLATSOP	ASTORIA	LNG MARINE TERMINAL	O/G	LNG	POST	0
3960	OR CLATSOP	VARIOUS	ONSHORE O/G EXPLORATION	O/G	WELL	PROP	0
3965	OR CLATSOP	COLUMBIA RIVER MOUTH	OFFSHORE O/G EXPL-STATE WATERS	O/G	EXPL	PROP	0
3970	OR CLATSOP		COAL SLURRY/GAS PLANT/NPC	SYN	COAL	POST	0
3975	OR TILLAMOOK	TRASK RIVER	HYDRO PROJECT	PWR	HYD	PROP	0
3980	OR LINCOLN		LINCOLN PUD	PWR	COAL	PROP	0
3985	OR LINCOLN	NEWPORT	YAQUINA BAY	TRAN	OIL	EXIST	0
3990	OR LINCOLN	NEWPORT	NORTHWEST NATURAL GAS LNG	O/G	LNG	EXIST	0
3995	OR LINCOLN	NEWPORT	NNG LNG TERMINAL	TRAN	MTER	PROP	0
4000	OR LINCOLN	NEWPORT	NNG PYROLYSIS/FOREST WASTE	SYN	BIOM	PROP	0
4005	OR LANE		LEABURG	PWR	HYD	EXIST	0
4010	OR LANE		WILLAMETTE	PWR	FOSL	EXIST	0
4015	OR LANE		WALTERVILLE	PWR	HYD	EXIST	0
4020	OR LANE		WEYCO CENTER	PWR	FOSL	EXIST	0
4025	OR LANE		COUGAR	PWR	HYD	EXIST	0
4030	OR LANE		DEXTER	PWR	HYD	EXIST	0
4035	OR LANE		HILLS CREEK	PWR	HYD	EXIST	0
4040	OR LANE		LOOKOUT POINT	PWR	HYD	EXIST	0
4045	OR DOUGLAS		CLEARWATER 1/2	PWR	HYD	EXIST	0
4050	OR DOUGLAS		LEMOLO 1/2	PWR	HYD	EXIST	0
4055	OR DOUGLAS		SLIDE CREEK	PWR	HYD	EXIST	0
4060	OR DOUGLAS		SODA SPRINGS	PWR	HYD	EXIST	0
4065	OR DOUGLAS		TOKETEE	PWR	HYD	EXIST	0
4070	OR DOUGLAS	REEDSPORT	UMPQUA ESTUARY/OIL STORAGE	TRAN	OIL	EXIST	0
4075	OR DOUGLAS	STATE WATERS	CHEVRON EXPLORATION	O/G	EXPL	PROP	0
4080	OR COOS	COOS BAY	5 OIL TANKER TERMINALS	TRAN	OIL	EXIST	0
4085	OR COOS	COOS BAY	TEXACO,UNION,CHEV TANK FARMS	TRAN	OIL	EXIST	0
4090	OR COOS	COOS BAY	UNION TERMINAL	TRAN	MTER	EXPAN	0
4095	OR COOS	NORTH SPIT	PORT EXPANSION	TRAN	OIL	PROP	0
4100	OR COOS	COOS BAY	STATE LEASE	O/G	EXPL	PROP	0
4105	OR COOS	COQUILLE RIVER	HYDRO PROJECT	PWR	HYD	PROP	0
4110	OR CURRY	ILLINOIS RIVER	HYDRO PROJECT	PWR	HYD	PROP	0
4115	WA WHATCOM	CHERRY POINT	PLATFORM FABRICATION	O/G	OCSR	PROP	0
4120	WA WHATCOM	CHERRY POINT	ARCO REFINERY	O/G	REFN	EXIST	0
4125	WA WHATCOM	CHERRY POINT	MOBIL OIL	O/G	REFN	EXIST	0
4130	WA WHATCOM	FERNDALE	PORT/MAX 150,000 DWT	TRAN	PORT	EXIST	0
4135	WA WHATCOM		NOOKSACK	PWR	HYD	EXIST	0
4140	WA WHATCOM	BAKER RIVER	UPPER BAKER	PWR	HYD	EXIST	0
4145	WA WHATCOM		WHITEHORN	PWR	FOSL	EXIST	0
4150	WA WHATCOM		GORGE	PWR	HYD	EXIST	0
4155	WA WHATCOM		DIABLO	PWR	HYD	EXIST	0
4160	WA WHATCOM		NEW HALEM	PWR	HYD	EXIST	0
4165	WA WHATCOM	BELLINGHAM	ROSS DAM	PWR	HYD	PROP	0
4166	WA WHATCOM	BELLINGHAM	POTENTIAL COAL EXPORT	TRAN	COAL	POST	0
4170	WA WHATCOM	NEW HALEM	COPPER CREEK DAM	PWR	HYD	PROP	0
4175	WA SKAGIT	ANACORTES	SHELL OIL	O/G	REFN	EXIST	0
4180	WA SKAGIT	ANACORTES	TEXACO	O/G	REFN	EXIST	0
4185	WA SKAGIT	ANACORTES	PORT/MAX 100,000 DWT	TRAN	PORT	EXIST	0
4190	WA SKAGIT	BAKER RIVER	LOWER BAKER	PWR	HYD	EXIST	0
4195	WA SKAGIT	SEDRO WOOLEY	SKAGIT	PWR	NUKE	PROP	87
4200	WA SNOHOMISH	EVERETT	NORTON AVE TERMINAL	O/G	GAS	PROP	0
4201	WA SNOHOMISH	EVERETT	LOW BTU GAS FROM WOOD WASTE	SYN	BIOM	PROP	0
4202	WA SNOHOMISH	EVERETT	PORT	TRAN	PORT	EXIST	0
4205	WA SNOHOMISH	SULTAN RIVER	CULMBACH DAM	PWR	HYD	EXPAN	0
4210	WA KING		SHUFFLETON	PWR	FOSL	EXIST	0
4212	WA KING	SEATTLE	PORT	TRAN	PORT	EXIST	0
4215	WA KING		SNOQUALMIE	PWR	HYD	EXIST	0
4220	WA KING		ROSS DAM	PWR	HYD	EXIST	0
4225	WA KING		CEDAR FALLS	PWR	HYD	EXIST	0
4230	WA KING		GEORGETOWN	PWR	FOSL	EXIST	0
4235	WA KING		LAKE UNION	PWR	FOSL	EXIST	0
4240	WA KING		UNSITED	PWR	FOSL	PROP	0
4245	WA PIERCE	TACOMA	US OIL/REFINING	O/G	REFN	EXPAN	82
4246	WA PIERCE	TACOMA	POTENTIAL COAL EXPORT	TRAN	COAL	POST	0
4250	WA PIERCE	TACOMA	SOUND REFINING	O/G	REFN	EXIST	0
4255	WA PIERCE	TACOMA	PORT/MAX 120,000 DWT	TRAN	PORT	EXIST	0
4260	WA PIERCE	FORT LEWIS	SYNFUELS PILOT PLANT	SYN	COAL	EXIST	0
4262	WA PIERCE	TACOMA	ETHANOL FROM CORN/BREWERY	SYN	BIOM	PROP	0
4265	WA PIERCE		CRYSTAL MOUNTAIN	PWR	FOSL	EXIST	0
4270	WA PIERCE		ELECTRON	PWR	HYD	EXIST	0
4275	WA PIERCE		WHITE RIVER	PWR	HYD	EXIST	0
4280	WA PIERCE		ALDER	PWR	HYD	EXIST	0
4285	WA PIERCE		LA GRANDE	PWR	HYD	EXIST	0
4290	WA THURSTON		CENTRALIA	PWR	HYD	EXIST	0
4295	WA MASON		CUSHMAN 1/2	PWR	HYD	EXIST	0
4300	WA ISLAND		SOUTH WHIDBEY	PWR	FOSL	EXIST	0

[a] Key to computer generated list is located in Appendix.

REGION 7 - ALASKA

Estimates indicate that over 20 percent of the nation's energy resources are in Alaska. Coal deposits represent between 39 and 63 percent of the U.S. total and Alaska's oil and gas reserves and hydroelectric potential are greater than those of any other state. Existing coastal energy developments are primarily limited to the Cook Inlet and Prudhoe Bay areas; however, energy development plans are being proposed or postulated for many other sites in the Alaska coastal zone. These pristine environments are noted for their intense biological productivity and heavy concentrations of marine mammals, birds, fish, and shellfish.

Alaska currently receives most of its electrical energy from a handful of large gas-fired generating plants situated in the Anchorage vicinity. Other fossil-fuel generating plants are located near Kenai and Kodiak. Most of the smaller coastal communities are served by small diesel generating units of 0.1 MW(e) capacity or smaller and are not represented on the accompanying Alaska maps. Expansion of Alaska's fossil-fuel generating capacity is not anticipated due to the rapid development of the enormous hydroelectric potential. Hydroelectric power should easily offset any increased demands for electricity well into the next century. Conversion of existing gas-fired plants to coal is a possibility since some gas fields near Anchorage (tidelands and Kenai) have already peaked out.

The Alaska Power Authority, along with DOE's Alaska Power Administration and the Alaska District Corps of Engineers, is carrying out numerous hydroelectric power development activities. Among the hydroelectric projects currently funded are Bradley Lake (Homer), Solomon Gulch (Valdez), Swan Lake (Ketchikan), Terror Lake (Kodiak), Lake Yyee (Petersburg/Wrangell), Power Creek (Cordova), Green Lake (Sitka), Lake Elva (Dillingham), Kisaralik River (Bethel), Gunnuk Creek (Kake), Black Bear Lake (Klawock), Gartina Creek (Hoohan), Thayer Creek (Angoon), and Chilkat River (Haines). At least several of these developments are planned as medium sized hydro projects on the order of 22 MW(e).

The largest hydroelectric project under consideration is the multi-billion dollar Upper Susitna hydroelectric project. The current proposal for the Upper Susitna is a two-phase two-dam complex including the Watana and the Devil Canyon dam, located on the Susitna River approximately 150 miles northeast of Anchorage. As planned, the Watana Dam will have a power plant capacity of 795 MW(e) and the Devil Canyon Dam a capacity of 776 MW(e). The earliest possible completion date is 1995.

These hydroelectric projects, along with postulated projects in the Anchorage and Seward areas, will greatly increase Alaska's electrical generating capacity. Existing hydroelectric projects are located near Juneau, Seward, and Matanuska. It is estimated that Alaska has from 10 to 100 sites for large hydroelectric projects and several hundred sites for smaller hydroelectric projects.

Two of Alaska's three refineries are located within the coastal zone at Nikiski on Cook Inlet. Both refineries receive their crude from offshore and onshore state-owned production areas. Finished products are pipelined to Anchorage or tankered to the Lower 48. A large refinery (150,000 BPD) is planned to begin operation in Valdez in 1985. This new refinery will process state oil from the Trans-Alaska Pipeline for markets in Alaska, the Lower 48, and foreign countries.

Also located at Nikiski is the state's sole LNG liquefaction and export facility. Connected by pipeline to onshore and offshore gas fields, the plant sends an LNG tanker to Japan on the average of once every ten days. A second LNG facility is planned to begin operation in the same area in 1985. Expanded gas production from untapped areas of Cook Inlet will supply this facility via offshore pipelines. Tankers leaving this facility are expected to have Southern California as their destination.

Existing oil and gas production is limited to state onshore and offshore fields in Upper Cook Inlet and onshore fields in Prudhoe Bay. Fourteen oil and gas platforms in Cook Inlet and onshore wells are connected by pipeline to onshore treatment and storage facilities. Marine terminals at Nikiski and Drift River provide tanker loading of oil and LNG. Production from the Prudhoe Bay field is transported south through the Trans-Alaska Pipeline to the large marine terminal at Valdez. This facility can load three tankers simultaneously.

OCS and state coastal oil development will be the most important coastal problem over the next ten to thirty years in Alaska. OCS exploration has thus far been limited to the Cook Inlet and Gulf of Alaska leasing areas. The five year federal leasing schedule calls for future leases in eight other OCS areas including: the Kodiak Shelf, Northern Aleutian Shelf, St. George Basin, Navarin Basin, Norton Basin, Chukchi Basin, and the Beaufort Basin. Oil and gas production from most of these offshore areas will probably be pipelined to shore facilities for treatment, storage, and tanker loading. The lack of an existing oil and gas infrastructure in most coastal regions of Alaska will make the impact of new development particularly severe. Enclave developments are anticipated in order to contain the sprawl and impact of onshore development. According to BLM forecasts, production from areas far offshore may be stored and loaded aboard tankers at sea without transport to shore. Production from the Chukchi and Beaufort Basins will probably be pipelined to Prudhoe Bay and moved south through the Trans-Alaska and proposed Alcan pipelines.

The State of Alaska has developed its own leasing schedule for onshore and tidewater areas. Lease sales are scheduled through 1983 for the Copper River Basin, Upper Cook Inlet, Bristol Bay, Norton Sound, and the North Slope. Simultaneous development of state and federal lease tracts will significantly increase the stress on coastal resources.

Large scale development of Alaska's coal reserves will likely occur during this decade. The Beluga and Bering River fields are the most likely candidates for development with coal slurry lines moving coal to terminals near Anchorage and Cordova. Development of tidal power has some potential, particularly in Cook Inlet with its 30-40 ft tides; however, severe weather conditions and ice formation will probably limit development. Plans for a massive tidal power installation on Knik Arm were abandoned because of anticipated problems with ice movement. However, the State of Alaska has recently asked for proposals for tidal projects in Cook Inlet.

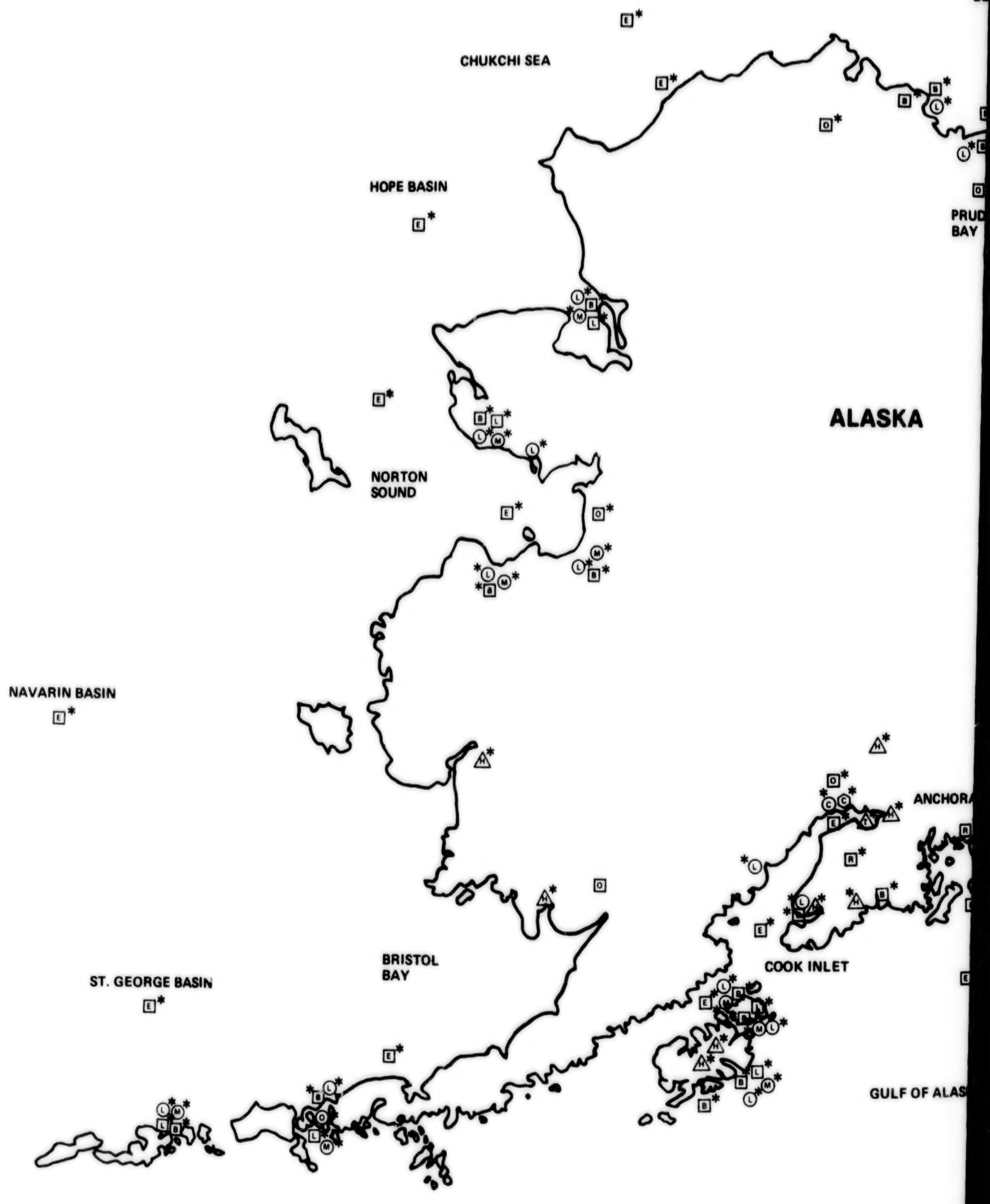
The Alaska coastal environment supports a tremendous variety and concentration of fish and wildlife, and the majority of coastal areas remain undeveloped and in pristine condition. Areas of particular concern include Southeastern Alaska, the Copper River Delta, Prince William Sound, Bristol Bay, the Unimak Pass, the Yukon River Delta, and Norton Sound.

The Gulf of Alaska supports major groups of finfish and shellfish resources as well as year-round abundance of marine mammals. Southeastern Alaska contains about forty percent of the continental population of bald eagles. The Copper River Delta is a major waterfowl and shorebird nesting area and provides spawning access to five species of salmon. The islands and bay of Prince William Sound have large populations of sea otter and four large historic sea lion rookeries. The estuaries of the sound are very productive areas for many marine species of fish, birds, and mammals.

The biological heart of the Bering Sea region is Bristol Bay. The bay is one of the most biologically productive marine areas in the world. Bristol Bay estuary and the associated continental shelf possess the greatest concentration of birds, fish, and marine mammals found anywhere on the North American continent. Cutting through the Aleutian Peninsula and connecting the Gulf of Alaska and the Bering Sea is Unimak Pass, a major migration route for birds and marine mammals. This pass is the primary migration route for the grey whale and northern fur seal. The Unimak Pass and eastern Aleutian Islands provide nesting areas for large numbers of seabirds and habitat for many species of marine mammals. The shallow lagoon system of the Aleutian Peninsula provides critical staging areas for migrant waterfowl and shorebirds. The Yukon River Delta provides nesting habitat for high population percentages of several species of geese and swans in the Pacific Flyway. Millions of shorebirds, ducks, and seabirds also use the delta. Similarly, Norton Sound is a major nesting habitat for colonial seabirds and waterfowl and is home to thirteen species of marine mammals.

The annual biological productivity in the Arctic region is far less than that of southern Alaska coastal regions because of the short growing season. The greatest production of fish occurs in the coastal lagoons, and the protective barrier islands and lagoon areas are critical feeding areas for migratory birds and mammals. Although there are many marine mammals occurring in the Arctic seasonally, there are relatively few species. Among the species present, however, are the grey and bowhead whales.

The State of Alaska generally supports the development of Alaska's energy resources. Development of energy industries is viewed as a means of providing support to the beleaguered state economy and stable long term employment. The need for careful environmental planning is recognized; however, there is a pervasive feeling that development and coastal resources can coexist without major impact to either. The state is currently involved in a dispute with the Federal Government over OCS leasing policy. The state would prefer to see the onshore and tidewater oil fields under state jurisdiction developed prior to development in more hazardous OCS regions. The state considers onshore and tidewater development to be less threatening to the environment. Native corporations are gaining greater strength and will have a major voice in deciding onshore locations of energy facilities. Development of coal fields by these corporations is considered a likely possibility.



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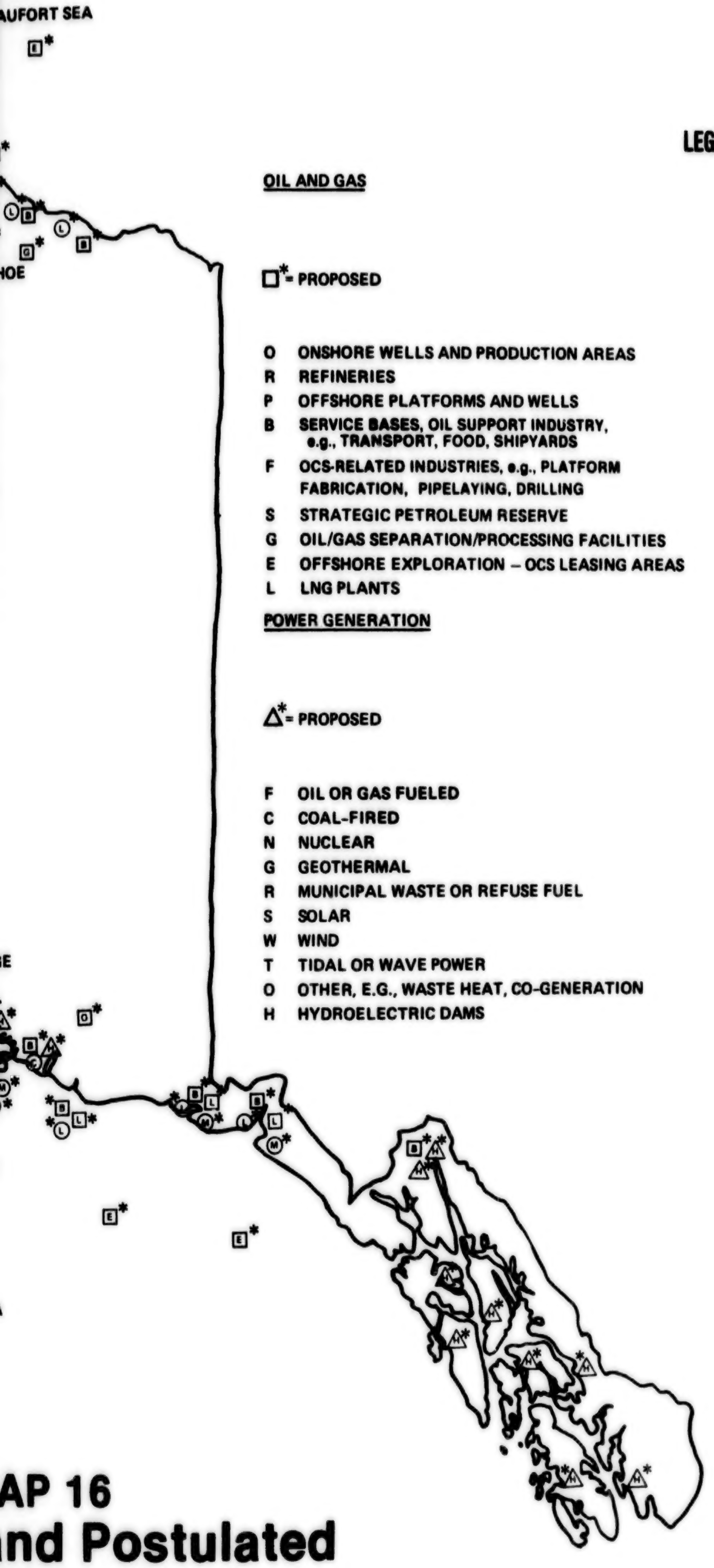

LEGEND

OIL AND GAS

□* = PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△* = PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○* = PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡* = PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

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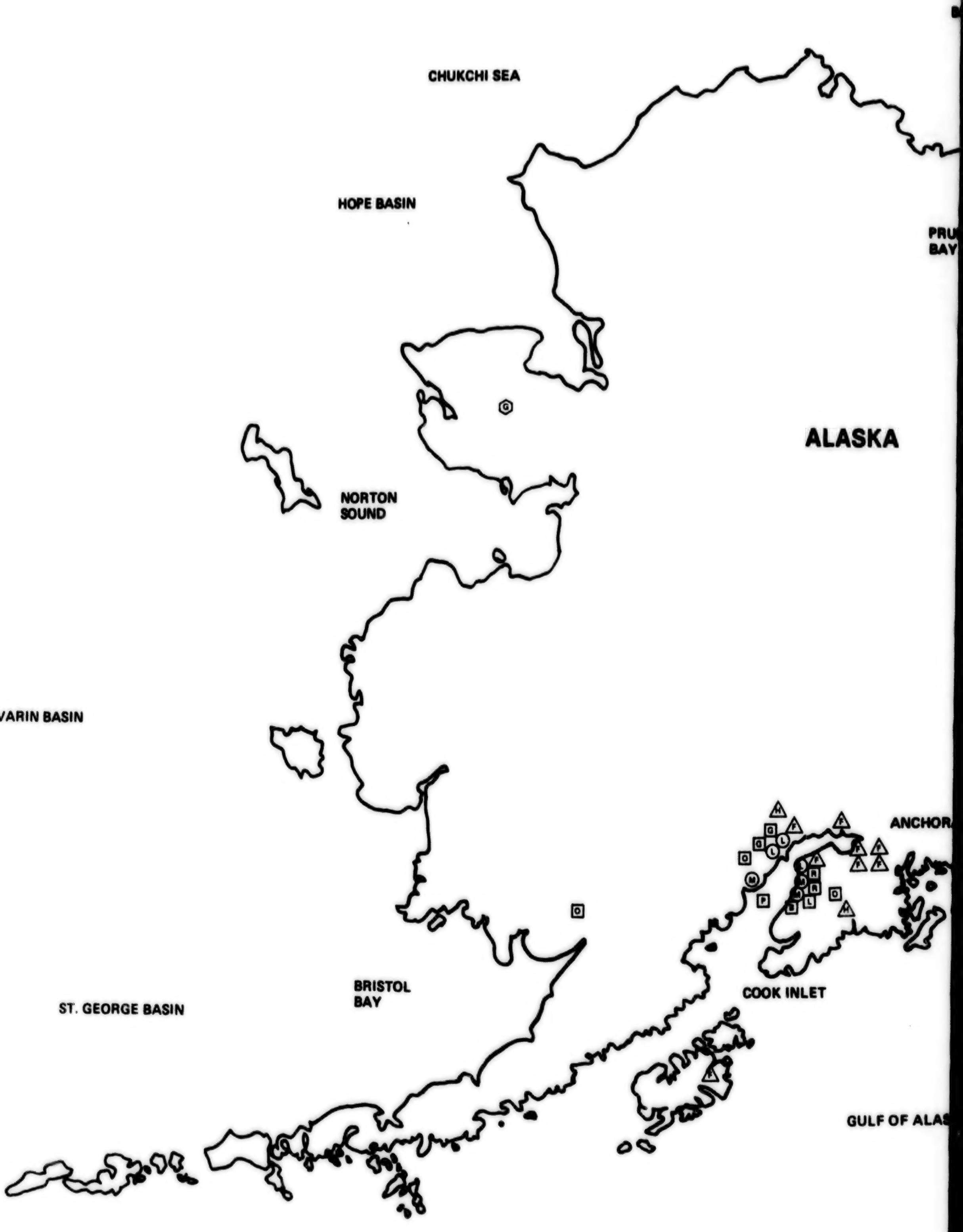

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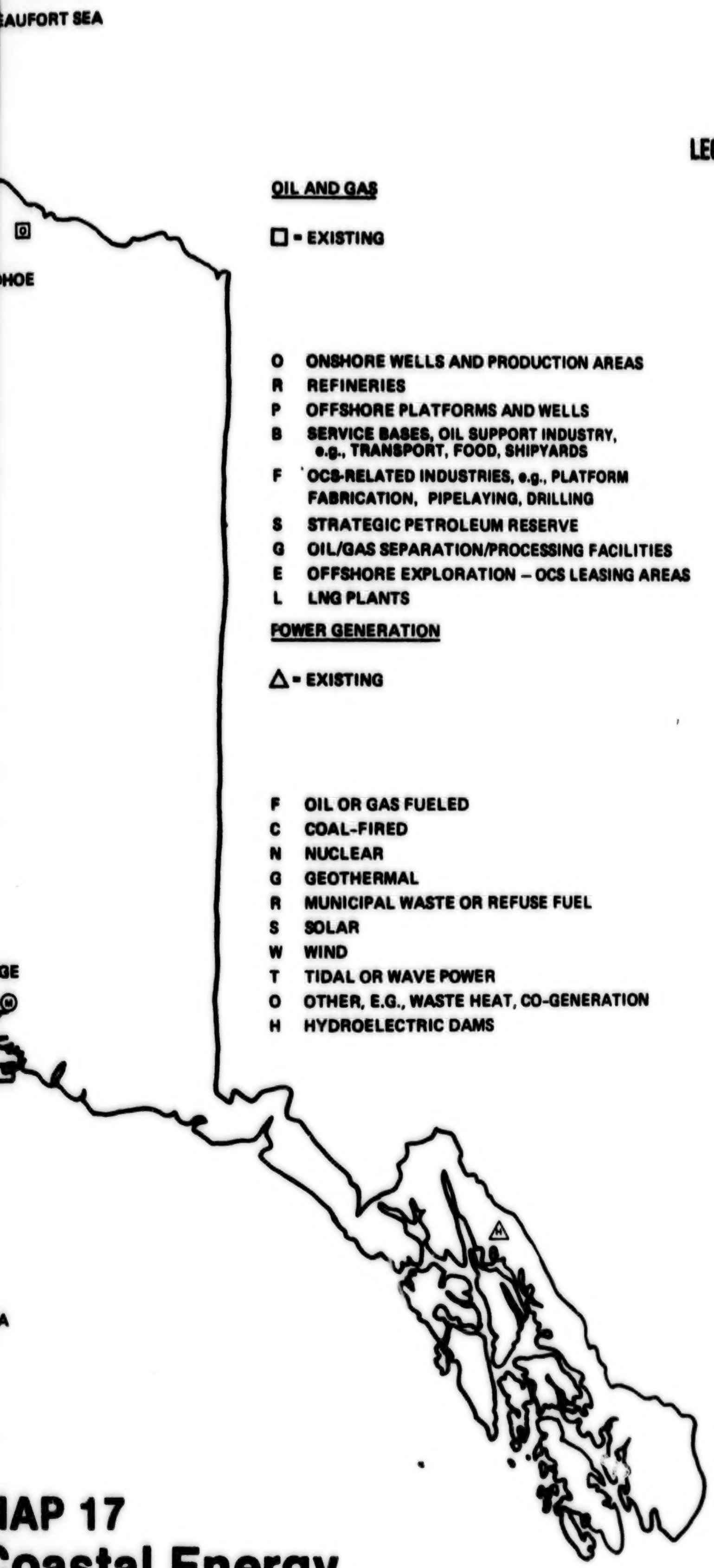

LEGEND

OIL AND GAS

☐ - EXISTING

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ - EXISTING

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ - EXISTING

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ - EXISTING

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

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Coastal Energy
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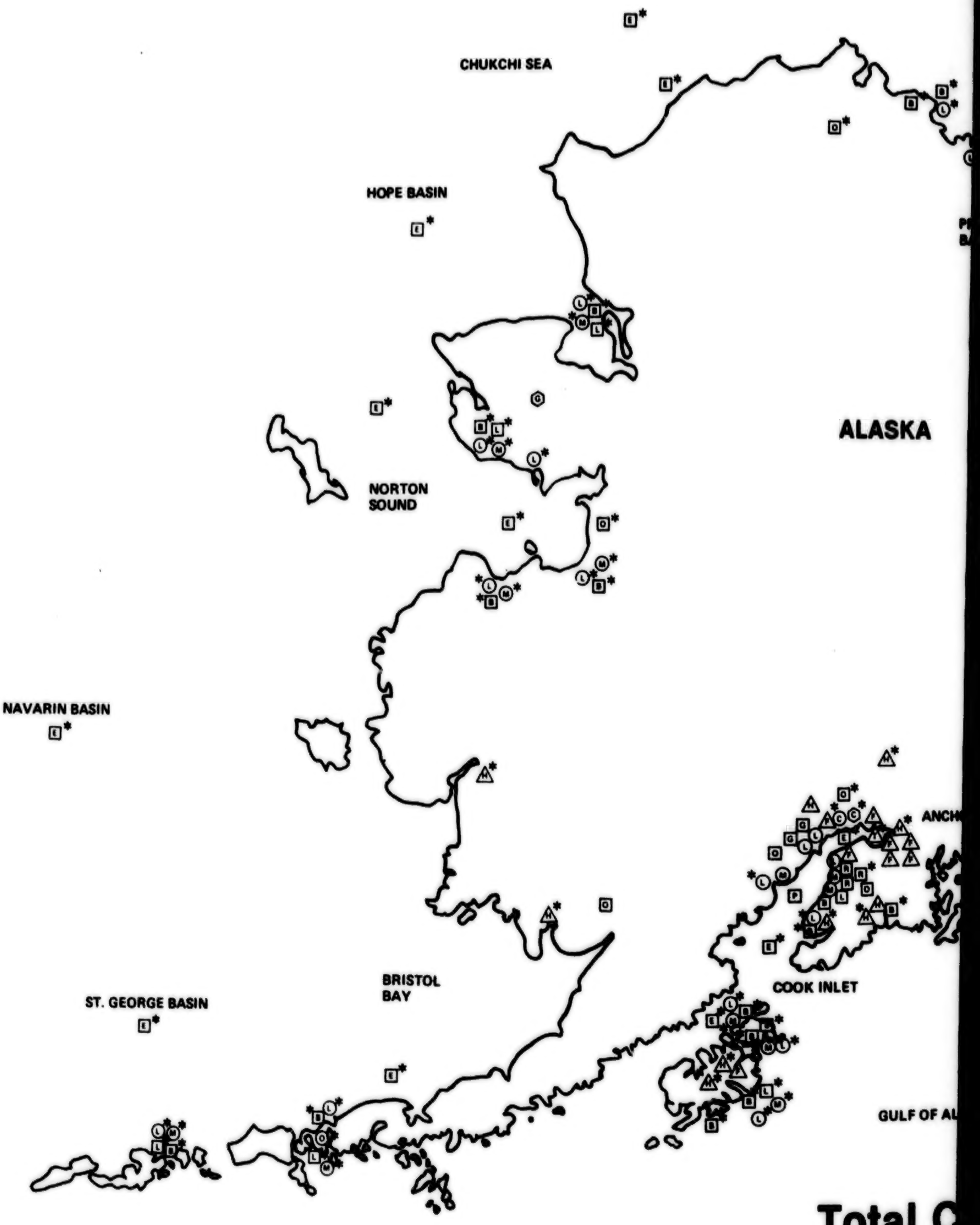

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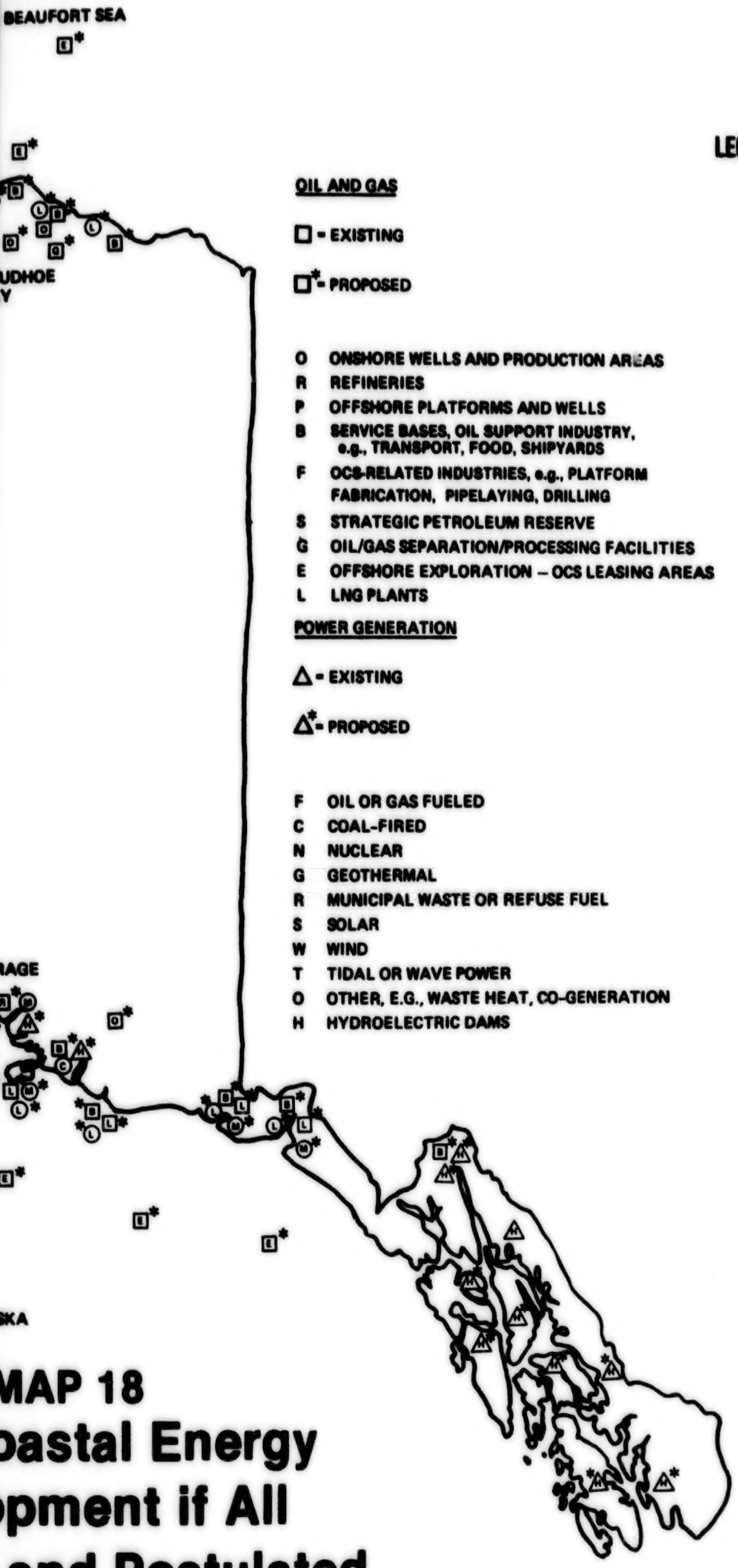

LEGEND

OIL AND GAS

□ - EXISTING

□* - PROPOSED

O	ONSHORE WELLS AND PRODUCTION AREAS
R	REFINERIES
P	OFFSHORE PLATFORMS AND WELLS
B	SERVICE BASES, OIL SUPPORT INDUSTRY, e.g., TRANSPORT, FOOD, SHIPYARDS
F	OCS-RELATED INDUSTRIES, e.g., PLATFORM FABRICATION, PIPELAYING, DRILLING
S	STRATEGIC PETROLEUM RESERVE
G	OIL/GAS SEPARATION/PROCESSING FACILITIES
E	OFFSHORE EXPLORATION – OCS LEASING AREAS
L	LNG PLANTS

POWER GENERATION

△ - EXISTING

△* - PROPOSED

F	OIL OR GAS FUELED
C	COAL-FIRED
N	NUCLEAR
G	GEOTHERMAL
R	MUNICIPAL WASTE OR REFUSE FUEL
S	SOLAR
W	WIND
T	TIDAL OR WAVE POWER
O	OTHER, E.G., WASTE HEAT, CO-GENERATION
H	HYDROELECTRIC DAMS

TRANSPORTATION AND STORAGE FACILITIES

○ - EXISTING

○* - PROPOSED

L	PIPELINE LANDFALLS
O	OIL RELATED
G	GAS RELATED
C	COAL HANDLING
D	DEEPWATER PORT
P	MAJOR PORT
M	MARINE TERMINALS

OTHER

⬡ - EXISTING

⬡* - PROPOSED

C	COAL-RELATED SYNFUELS
B	BIOMASS-RELATED SYNFUELS
G	GEOTHERMAL-GEOPRESSURE EXPLORATION
M	MISCELLANEOUS

MAP 18
oastal Energy
opment if All
and Postulated
Occur in Alaska

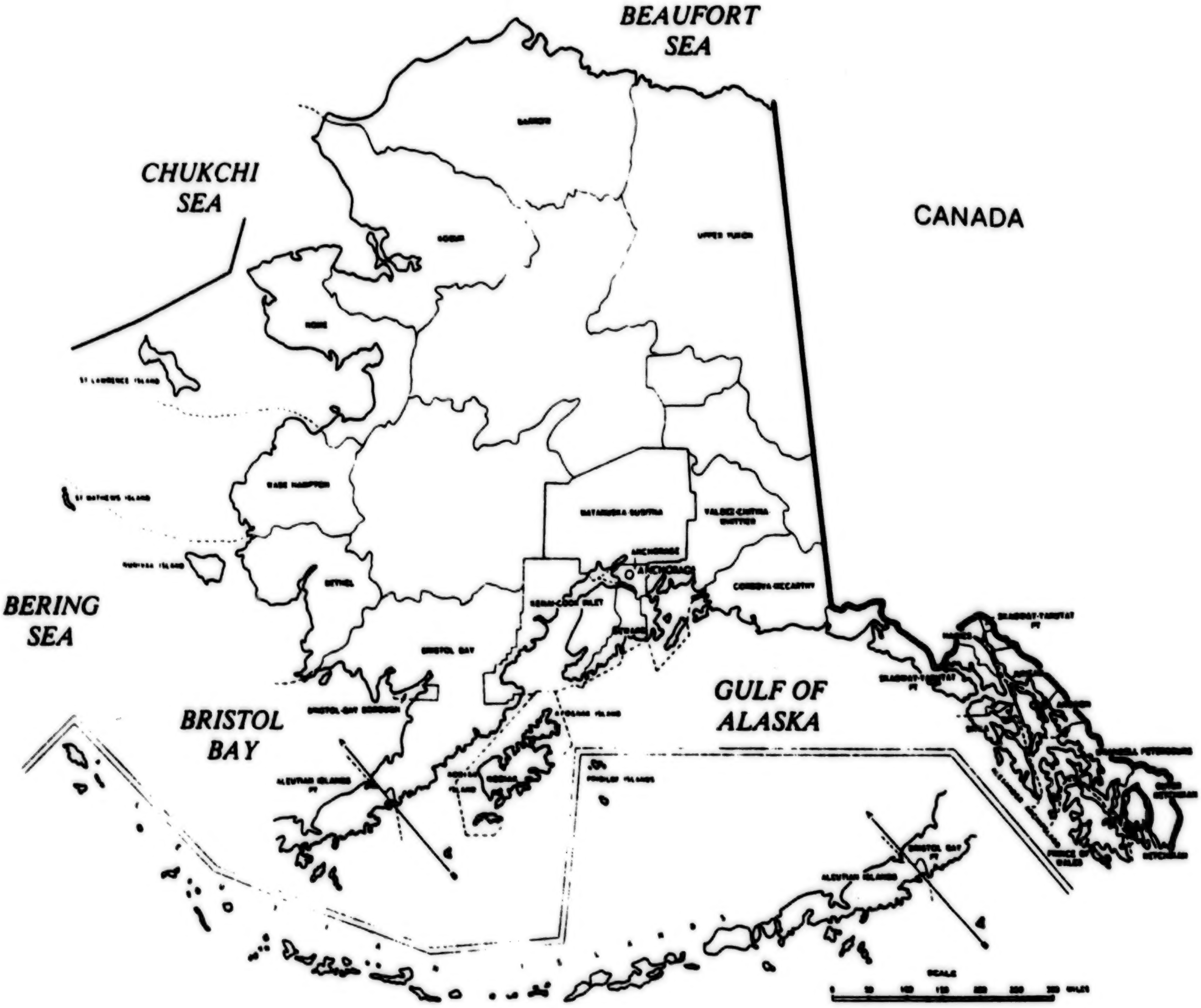

Figure 13. Coastal boroughs in Alaska.

Table 43. All coastal energy facilities in Alaska.

No.	State /	county	City / location	Facility name / description	Type	Code[a]	Status	Year
4400	AK	PRINCE/WALES	KLAWOCK	BLACK BEAR LAKE	PWR	HYD	PROP	0
4401	AK	PRINCE/WALES	KLAWOCK	ETHANOL FROM WOOD WASTE	SYN	BIOM	POST	0
4405	AK	KETCHIKAN	KETCHIKAN	SWAN LAKE	PWR	HYD	PROP	85
4410	AK	WRANGELL-PTBG	WRANGELL	LAKE YYEE	PWR	HYD	PROP	0
4415	AK	WRANGELL-PTBG	KAKE	GUNNUK CREEK	PWR	HYD	PROP	0
4420	AK	SITKA	SITKA	GREEN LAKE	PWR	HYD	PROP	0
4425	AK	ANGOON	ANGOON	THAYER CREEK	PWR	HYD	PROP	0
4430	AK	JUNEAU	JUNEAU	SNETTISHAM PLANT	PWR	HYD	EXIST	0
4435	AK	HAINES	HAINES	LARSON BAY/OLD HARBOR	PWR	HYD	PROP	0
4440	AK	HAINES	HAINES	CHILKAT RIVER	PWR	HYD	PROP	0
4445	AK	SKAGWY-YAKUTAT	SKAGWAY	ALCAN PIPELINE	O/G	BASE	PROP	0
4450	AK	SKAGWY-YAKUTAT	YAKUTAT SHELF	OCS LEASE	O/G	EXPL	PROP	0
4455	AK	SKAGWY-YAKUTAT	YAKUTAT	SERVICE BASE	O/G	BASE	POST	0
4460	AK	SKAGWY-YAKUTAT	YAKUTAT	PIPELINE LANDFALLS	TRAN	PIPE	POST	0
4465	AK	SKAGWY-YAKUTAT	YAKUTAT	MARINE TERMINAL	TRAN	MTER	POST	0
4470	AK	SKAGWY-YAKUTAT	YAKUTAT	LNG PLANT	O/G	LNG	POST	0
4475	AK	CORDOVA	YAKATAGA SHELF	OCS LEASE	O/G	EXPL	PROP	0
4480	AK	CORDOVA	MIDDLETON SHELF	OCS LEASE	O/G	EXPL	PROP	0
4485	AK	CORDOVA	ICY BAY	SERVICE BASE	O/G	BASE	POST	0
4490	AK	CORDOVA	ICY BAY	LNG PLANT	O/G	LNG	POST	0
4495	AK	CORDOVA	KAYAK ISLAND	SERVICE BASE	O/G	BASE	POST	0
4500	AK	CORDOVA	KAYAK ISLAND	LNG PLANT	O/G	LNG	POST	0
4505	AK	CORDOVA	COPPER RIVER BASIN	ONSHORE STATE LEASE	O/G	WELL	PROP	82
4510	AK	CORDOVA	CORDOVA	SERVICE BASE	O/G	BASE	POST	0
4515	AK	CORDOVA	CORDOVA	POWER CREEK	PWR	HYD	PROP	0
4520	AK	CORDOVA	CORDOVA	COAL PIPELINE TERMINAL	TRAN	COAL	POST	0
4525	AK	CORDOVA	PORT ECHES	MARINE TERMINAL	TRAN	MTER	POST	0
4530	AK	CORDOVA	PORT ECHES	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4535	AK	CORDOVA	PORT ECHES	LNG PLANT	O/G	LNG	POST	0
4540	AK	VALDEZ	VALDEZ	MARINE TERMINAL	TRAN	MTER	EXIST	0
4545	AK	VALDEZ	VALDEZ	ALPETCO REFINERY	O/G	REFN	PROP	85
4550	AK	VALDEZ	VALDEZ	SOLOMON GULCH	PWR	HYD	PROP	0
4555	AK	SEWARD	SEWARD	SERVICE BASE	O/G	BASE	POST	0
4560	AK	SEWARD	SEWARD	SEWARD HYDRO SITE	PWR	HYD	POST	0
4565	AK	SEWARD	SEWARD	COPPER LAKE	PWR	HYD	EXIST	0
4570	AK	ANCHORAGE	ANCHORAGE	ANCHORAGE 1/2	PWR	FOSL	EXIST	0
4575	AK	ANCHORAGE	ANCHORAGE	SULLIVAN	PWR	FOSL	EXIST	0
4580	AK	ANCHORAGE	ANCHORAGE	INTERNATIONAL	PWR	FOSL	EXIST	0
4585	AK	ANCHORAGE	ANCHORAGE	EAGLE RIVER	PWR	HYD	POST	0
4590	AK	MATANUSKA	COOK INLET	KNIK ARM	PWR	FOSL	EXIST	0
4595	AK	MATANUSKA	COOK INLET	BELUGA	PWR	FOSL	EXIST	0
4600	AK	MATANUSKA	MATANUSKA	EKLUTNA	PWR	HYD	EXIST	0
4605	AK	MATANUSKA	KNIK ARM	TIDAL PROJECT	PWR	TIDE	POST	0
4610	AK	MATANUSKA	COOK INLET	COAL SYNFUELS/METHANOL	SYN	COAL	POST	0
4615	AK	MATANUSKA	COOK INLET	COAL EXPORT TERMINAL	TRAN	COAL	POST	0
4620	AK	MATANUSKA	UPPER COOK INLET	OFFSHORE STATE LEASE	O/G	EXPL	PROP	0
4625	AK	MATANUSKA	COOK INLET/SUSITNA	ONSHORE STATE LEASES	O/G	WELL	PROP	0
4630	AK	KENAI	DRIFT RIVER	MARINE TERMINAL	TRAN	MTER	EXIST	0
4635	AK	KENAI	TRADING BAY	PRODUCTION FACILITIES	O/G	GAS	EXIST	0
4640	AK	KENAI	TYONEK	ARCO-TEXACO PROD FACILITES	O/G	GAS	EXIST	0
4645	AK	KENAI	TRADING BAY-N/S	PIPELINE LANDFALLS	TRAN	PIPE	EXIST	0
4650	AK	KENAI	COOK INLET/STATE	14 O/G PLATFORMS	O/G	PLAT	EXIST	0
4655	AK	KENAI	NIKISHKA	PIPELINE LANDFALL	TRAN	PIPE	EXIST	0
4660	AK	KENAI	NIKISKI	CHEVRON	O/G	REFN	EXIST	0
4665	AK	KENAI	NIKISKI	TESORO REFINERY	O/G	REFN	EXIST	0
4670	AK	KENAI	NIKISKI	PHILLIPS/MARATHON LNG	O/G	LNG	EXIST	0
4675	AK	KENAI	NIKISKI	MARINE TERMINALS	TRAN	MTER	EXIST	0
4680	AK	KENAI	NIKISKI	SERVICE BASE	O/G	BASE	EXIST	0
4685	AK	KENAI	KENAI	ONSHORE PRODUCTION	O/G	WELL	EXIST	0
4690	AK	KENAI	DRIFT RIVER	ONSHORE GAS PRODUCTION	O/G	WELL	EXIST	0
4692	AK	KENAI	COOK INLET	TIDAL PROPOSAL SOLICITATION	PWR	TIDE	POST	0
4695	AK	KENAI	KENAI	BERNICE LAKE	PWR	FOSL	EXIST	0
4700	AK	KENAI	KENAI	PACIFIC ALASKA LNG	O/G	LNG	PROP	85
4705	AK	KENAI	KENAI	ROYALTY OIL REFINERY	O/G	REFN	PROP	0
4710	AK	KENAI	HOMER	BRADLEY LAKE	PWR	HYD	PROP	0
4715	AK	KENAI	LOWER COOK INLET	STATE OFFSHORE LEASE	O/G	EXPL	PROP	80
4720	AK	KENAI	COOK INLET-SHELIKOFF	OCS LEASE	O/G	EXPL	PROP	81
4725	AK	KENAI	HOMER	SERVICE BASE	O/G	BASE	POST	0
4730	AK	KENAI	SO KENAI	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4735	AK	KENAI	DRIFT RIVER	GAS PIPELINE LANDFALL	TRAN	PIPE	POST	0

Continued

[a] Key to computer generated list is located in Appendix.

Table 43 concluded.

No.	State / county	City / location	Facility name / description	Type	Code[a]	Status	Year
4740	AK KODIAK	KODIAK	KODIAK PLANT	PWR	FOSL	EXIST	0
4745	AK KODIAK	KODIAK	TERROR LAKE	PWR	HYD	PROP	84
4750	AK KODIAK	KODIAK	KODIAK A	PWR	HYD	PROP	81
4755	AK KODIAK	AFOGNAK IS/WEST	SERVICE BASE	O/G	BASE	POST	0
4760	AK KODIAK	AFOGNAK IS/WEST	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4765	AK KODIAK	AFOGNAK IS/EAST	SERVICE BASE	O/G	BASE	POST	0
4770	AK KODIAK	AFOGNAK IS/EAST	LNG PLANT	O/G	LNG	POST	0
4775	AK KODIAK	AFOGNAK IS/EAST	MARINE TERMINAL	TRAN	MTER	POST	0
4780	AK KODIAK	AFOGNAK IS/EAST	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4785	AK KODIAK	UGAK BAY	SERVICE BASE	O/G	BASE	POST	0
4790	AK KODIAK	UGAK BAY	LNG PLANT	O/G	LNG	POST	0
4795	AK KODIAK	UGAK BAY	MARINE TERMINAL	TRAN	MTER	POST	0
4800	AK KODIAK	UGAK BAY	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4805	AK KODIAK	OLD HARBOR	SERVICE BASE	O/G	BASE	POST	0
4810	AK BRISTOL BAY	BRISTOL BAY	ONSHORE STATE LEASE	O/G	WELL	PROP	82
4815	AK BRISTOL BAY	DILLINGHAM	LAKE ELVA	PWR	HYD	PROP	0
4820	AK ALEUTIAN IS	NO ALEUTIAN SHELF	OCS LEASE	O/G	EXPL	PROP	83
4825	AK ALEUTIAN IS	ST GEORGE BASIN	OCS LEASE	O/G	EXPL	PROP	82
4830	AK ALEUTIAN IS	COLD BAY	SERVICE BASE.	O/G	BASE	POST	0
4835	AK ALEUTIAN IS	COLD BAY	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4840	AK ALEUTIAN IS	SOUTH COAST	LNG PLANT	O/G	LNG	POST	0
4845	AK ALEUTIAN IS	SOUTH COAST	MARINE TERMINAL	TRAN	MTER	POST	0
4850	AK ALEUTIAN IS	ONSHORE	TRANSPENINSULA PIPELINE	TRAN	PIPE	POST	0
4855	AK ALEUTIAN IS	UNALASKA	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4860	AK ALEUTIAN IS	UNALASKA	MARINE TERMINAL	TRAN	MTER	POST	0
4865	AK ALEUTIAN IS	UNALASKA	LNG PLANT	O/G	LNG	POST	0
4870	AK ALEUTIAN IS	UNALASKA	SERVICE BASE	O/G	BASE	POST	0
4875	AK BETHEL	NAVARIN BASIN	OCS LEASE	O/G	EXPL	PROP	84
4880	AK BETHEL	BETHEL	KISARALIK RIVER	PWR	HYD	PROP	0
4885	AK NOME	NORTON BASIN	OCS LEASE	O/G	EXPL	PROP	82
4890	AK NOME	NORTON SOUND	ONSHORE STATE LEASE	O/G	WELL	PROP	81
4895	AK NOME	NORTON SOUND	OFFSHORE STATE LEASE	O/G	EXPL	PROP	82
4900	AK NOME	SEWARD PENINSULA	GEOTHERMAL	OTHR	GEO	POST	0
4905	AK NOME	PASTOL BAY	SERVICE BASE	O/G	BASE	POST	0
4910	AK NOME	PASTOL BAY	MARINE TERMINAL	TRAN	MTER	POST	0
4915	AK NOME	PASTOL BAY	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4920	AK NOME	ST MICHAELS BAY	SERVICE BASE	O/G	BASE	POST	0
4925	AK NOME	ST MICHAELS BAY	MARINE TERMINAL	TRAN	MTER	POST	0
4930	AK NOME	GOLOVIN BAY	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4935	AK NOME	NOME	SERVICE BASE	O/G	BASE	POST	0
4940	AK NOME	NOME	LNG PLANT	O/G	LNG	POST	0
4945	AK NOME	NOME	MARINE TERMINAL	TRAN	MTER	POST	0
4950	AK NOME	NOME	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4954	AK KOBUK	PT LAY/NORTON SOUND	COAL FOR LOCAL FUEL	OTHR	COAL	POST	0
4955	AK KOBUK	HOPE BASIN	OCS LEASE	O/G	EXPL	PROP	0
4960	AK KOBUK	KOTZEBUE SOUND	SERVICE BASE	O/G	BASE	POST	0
4965	AK KOBUK	KOTZEBUE SOUND	MARINE TERMINAL	TRAN	MTER	POST	0
4970	AK KOBUK	KOTZEBUE SOUND	PIPELINE LANDFALL	TRAN	PIPE	POST	0
4975	AK KOBUK	KOTZEBUE SOUND	LNG PLANT	O/G	LNG	POST	0
4980	AK BARROW	CHUKCHI BASIN	OCS LEASE	O/G	EXPL	PROP	85
4985	AK BARROW	BEAUFORT BASIN	OCS LEASE	O/G	EXPL	PROP	80
4990	AK BARROW	BEAUFORT	OFFSHORE STATE LEASE	O/G	EXPL	PROP	80
4995	AK BARROW	CHUKCHI	OFFSHORE STATE LEASE	O/G	EXPL	PROP	83
5000	AK BARROW	PRUDHOE BAY	ONSHORE STATE LEASE	O/G	WELL	PROP	81
5005	AK BARROW	ARCTIC SLOPE	ONSHORE STATE LEASE	O/G	WELL	PROP	81
5010	AK BARROW	PRUDHOE BAY	ONSHORE OIL/GAS PRODUCTION	O/G	WELL	EXIST	0
5015	AK BARROW	PRUDHOE BAY	GAS TREATMENT PLANT	O/G	GAS	PROP	0
5020	AK BARROW	SMITH BAY	SERVICE BASE	O/G	BASE	POST	0
5025	AK BARROW	CAPE HALKETT	SERVICE BASE	O/G	BASE	POST	0
5030	AK BARROW	CAPE HALKETT	PIPELINE LANDFALL	TRAN	PIPE	POST	0
5035	AK BARROW	JONES ISLAND	SERVICE BASE	O/G	BASE	POST	0
5040	AK BARROW	JONES ISLAND	PIPELINE LANDFALL	TRAN	PIPE	POST	0
5045	AK BARROW	PRUDHOE BAY	SERVICE BASE	O/G	BASE	POST	0
5050	AK BARROW	PRUDHOE BAY	PIPELINE LANDFALLS	TRAN	PIPE	POST	0
5055	AK BARROW	CAMDEN-CANNING	SERVICE BASE	O/G	BASE	POST	0
5060	AK BARROW	CAMDEN-CANNING	PIPELINE LANDFALL	TRAN	PIPE	POST	0

[a] Key to computer generated list is located in Appendix.

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APPENDIX

COMPUTER-GENERATED INVENTORY LIST

KEY TO COMPUTER INVENTORY LISTS

Facility Type	Code	
Oil and Gas		
(O/G)	Well	Onshore wells and production areas
	Refn	Refineries
	Plat	Offshore platforms and wells
	Base	Service bases, oil support industry (e.g., transport, food, shipyards)
	OCSR	OCS - related industries (e.g., platform fabrication, pipe laying, drilling)
	SPR	Strategic Petroleum Reserve
	Gas	Oil/gas separation/processing facilities
	Expl	Offshore exploration - OCS leasing areas
	LNG	LNG plants
Power Generation		
(PWR)	Fosl	Oil or gas fueled
	Coal	Coal-fired
	Nuke	Nuclear
	Geo	Geothermal
	Wast	Municipal waste or refuse fuel
	Sol	Solar
	Wind	Wind
	Tide	Tidal or wave power
	Cogn	Other, e.g., waste heat, co-generation
	Hyd	Hydroelectric dams

Facility Type		Code
Transportation and Storage Facilities (TRAN)	Pipe	Pipeline landfalls
	Oil	Oil related
	Gas	Gas related
	Coal	Coal handling
	Dprt	Deepwater port
	Port	Major port
	Mter	Marine terminals
Synfuels (SYN)	Coal	Coal-related synfuels
	Biom	Biomass-related synfuels
Other (OTHR)	Geo	Geothermal-geopressure exploration
	Misc	Miscellaneous

Status (ST)	
Exist	Existing facility
Expan	Planned expansion of existing facility
Prop	Proposed facility
Post	Postulated (some intervening event required)
Year (YR)	Year of expected completion
Source (SOURC)	
D__	Document
PI__	Personal Interview
TC__	Telephone Call

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                                                                                                PAGE NO. 1
8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO  LO  CO              CITY             FAC                             TYPE  CODE  ST     YR  REF
   1  ME  WASHINGTON      EASTPORT         PITTSTON REFINERY               O/G   REFN  PROP   83  NOAA  1980 B
   2  ME  WASHINGTON                       RIVER STREET                    PWR   FOSL  EXIST   0  US DOE       1979 B
   2  ME  WASHINGTON                       PEAT-DERIVED FUEL PROCESS       SYN   BIOM  POST    0  ANONYMOUS,  1980 S
   2  ME  WASHINGTON      JONESPORT BOG    PEAT MINING                     SYN   BIOM  PROP    0  ANONYMOUS,  1980 S
   3  ME  WASHINGTON                       PORTABLE                        PWR   FOSL  EXIST   0  US DOE       1979 B
   4  ME  WASHINGTON                       EAST MACHIAS                    PWR   FOSL  EXIST   0  US DOE       1979 B
   5  ME  WASHINGTON                       EASTPORT                        PWR   FOSL  EXIST   0  US DOE       1979 B
   6  ME  WASHINGTON                       UPPER RUMFORD FALLS             PWR   HYD   EXIST   0  US DOE       1979 B
   7  ME  WASHINGTON                       LOWER RUMFORD FALLS             PWR   HYD   EXIST   0  US DOE       1979 B
   8  ME  HANCOCK         BAR HARBOR       BAR HARBOR                      PWR   FOSL  EXIST   0  US DOE       1979 B
   9  ME  HANCOCK                          ELLSWORTH                       PWR   HYD   EXIST   0  US DOE       1979 B
  10  ME  WALDO                            ISLESBORO                       PWR   FOSL  EXIST   0  US DOE       1979 B
  11  ME  WALDO           SEARS ISLAND     TEXACO-SYNFUELS/MED BTU GAS     SYN   COAL  POST    0  ANONYMOUS   1980 V
  12  ME  WALDO           SEARS ISLAND     SYNFUELS/ETHANOL FROM CORN      SYN   BIOM  POST    0  ANONYMOUS   1980 V
  13  ME  WALDO           SEARSPORT        SEARS ISLAND                    PWR   COAL  PROP   89  US DOE       1980 B
  14  ME  KNOX                             ROCKLAND                        PWR   FOSL  EXIST   0  US DOE       1979 B
  15  ME  LINCOLN         WISCASSET        MASON                           PWR   FOSL  EXIST   0  US DOE       1979 B
  16  ME  LINCOLN                          BRUNSWICK/TOPSHAM               PWR   HYD   PROP   81  US DOE       1979 B
  17  ME  LINCOLN                          MAINE YANKEE                    PWR   NUKE  EXIST   0  US DOE       1979 B
  18  ME  CUMBERLAND                       BRUNSWICK                       PWR   HYD   EXIST   0  US DOE       1979 B
  19  ME  CUMBERLAND                       CAPE                            PWR   FOSL  EXIST   0  US DOE       1979 B
  20  ME  CUMBERLAND                       NORTH GORHAM                    PWR   HYD   EXIST   0  US DOE       1979 B
  21  ME  CUMBERLAND                       PEAKS ISLAND                    PWR   FOSL  EXIST   0  US DOE       1979 B
  22  ME  CUMBERLAND      YARMOUTH         W F WYMAN                       PWR   FOSL  EXIST   0  US DOE       1979 B
  23  ME  CUMBERLAND      PORTLAND         PIPELINES TO CANADA             TRAN  OIL   EXIST   0  CURT LAFFIN, FWS
  24  ME  CUMBERLAND      PORTLAND         PORT/MAX 70,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
  25  ME  CUMBERLAND      YARMOUTH         COUSINS ISLAND                  PWR   FOSL  PROP    0  NOAA  1980 A
  26  ME  YORK                             BAR MILLS                       PWR   HYD   EXIST   0  US DOE       1979 B
  27  ME  YORK                             BONNY EAGLE                     PWR   HYD   EXIST   0  US DOE       1979 B
  28  ME  YORK                             CATARACT                        PWR   HYD   EXIST   0  US DOE       1979 B
  29  ME  YORK                             CONTINENTAL MILLS               PWR   HYD   EXIST   0  US DOE       1979 B
  30  ME  YORK                             SKELTON                         PWR   HYD   EXIST   0  US DOE       1979 B
  31  ME  YORK                             WEST BUXTON                     PWR   HYD   EXIST   0  US DOE       1979 B
  32  ME  ROCKY COAST     6 SITES          TIDAL POWER                     PWR   TIDE  PROP    0  CURT LAFFIN, FWS
  33  ME  INLAND                           LOWHEAD HYDRO                   PWR   HYD   PROP    0  CURT LAFFIN, FWS
  34  NH  ROCKINGHAM                       DANIEL STREET                   PWR   FOSL  EXIST   0  US DOE       1979 B
  35  NH  ROCKINGHAM                       SCHILLER                        PWR   FOSL  EXIST   0  US DOE       1979 B
  36  NH  ROCKINGHAM      NEWINGTON        NEWINGTON                       PWR   FOSL  EXIST   0  US DOE       1979 B
  37  NH  ROCKINGHAM                       SEABROOK                        PWR   NUKE  PROP   83  US DOE       1979 B
  38  NH  ROCKINGHAM      NEWINGTON        ATC PETROLEUM                   O/G   REFN  EXIST   0  US DOE       1979 E
  39  NH  ROCKINGHAM                       TAPCO GAS PIPE                  TRAN  GAS   PROP    0  NOAA  1980 A
  40  MA  ESSEX           NE MASS          ALGONQUIN GAS                   TRAN  GAS   PROP    0  NOAA  1980 A
  41  MA  ESSEX           LAWRENCE         LAWRENCE HYDRO                  PWR   HYD   PROP    0  NOAA  1980 A
  42  MA  ESSEX           METHUEN          LOWELL ST. DAM                  PWR   HYD   PROP    0  NOAA  1980 A
  43  MA  ESSEX                            IPSWICH                         PWR   FOSL  EXIST   0  US DOE       1979 B
  44  MA  ESSEX           MARBLEHEAD       COMMERCE ST. 2                  PWR   FOSL  EXIST   0  US DOE       1979 B
  45  MA  ESSEX           MARBLEHEAD       WILKINS STATION                 PWR   FOSL  EXIST   0  US DOE       1979 B
  46  MA  ESSEX                            GLOUCESTER                      PWR   FOSL  EXIST   0  US DOE       1979 B
  47  MA  ESSEX                            NEWBURYPORT                     PWR   FOSL  EXIST   0  US DOE       1979 B
  48  MA  ESSEX           SALEM            SALEM HARBOR                    PWR   FOSL  EXPAN   0  US DOE       1979 B
  49  MA  ESSEX                            LYNNWAY                         PWR   FOSL  EXIST   0  US DOE       1979 B
  50  MA  ESSEX           PEABODY          WATERS RIVER                    PWR   FOSL  PROP    0  US DOE       1979 B
  55  MA  ESSEX                            WARREN ST.                      PWR   FOSL  EXIST   0  US DOE       1979 B
  60  MA  MIDDLESEX       EVERETT          DISTRIGAS OF MASS               O/G   LNG   PROP    0  NOAA  1980 A
  65  MA  MIDDLESEX                        LOWELL PAWTUCKET CANAL          PWR   HYD   PROP    0  NOAA  1980 A
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                                                                                               PAGE NO. 2
8:47    1/26/81     APL DATA INTERFACE
COASTI;ALL;HSORT
   NO  LO  CO              CITY                  FAC                             TYPE  CODE  ST     YR  REF
   70  MA  MIDDLESEX                             FRAMINGHAM                      PWR   FOSL  EXIST   0  US DOE      1979 B
   75  MA  MIDDLESEX       EVERETT               MYSTIC                          PWR   FOSL  EXIST   0  US DOE      1979 B
   80  MA  MIDDLESEX                             BLACKSTONE STREET               PWR   FOSL  EXIST   0  US DOE      1979 B
   85  MA  MIDDLESEX                             KENDALL SQUARE                  PWR   FOSL  EXIST   0  US DOE      1979 B
   90  MA  MIDDLESEX                             CHERRY STREET                   PWR   FOSL  EXPAN  80  US DOE      1979 B
   95  MA  SUFFOLK         S BOSTON              L STREET                        PWR   FOSL  EXIST   0  US DOE      1979 B
  100  MA  SUFFOLK         S BOSTON              NEW BOSTON                      PWR   FOSL  EXIST   0  US DOE      1979 B
  105  MA  SUFFOLK         BOSTON                PORT/MAX 60,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
  110  MA  SUFFOLK                               SYNFUELS/ETHANOL FROM CROPS     SYN   BIOM  POST    0  ANONYMOUS   1980 V
  111  MA  SUFFOLK         BOSTON                REFUSE TO ENERGY SYSTEM         SYN   BIOM  POST    0  ANONYMOUS,  1980 S
  115  MA  SUFFOLK         BOSTON                LNG RECEIVING                   O/G   LNG   EXIST   0  US DOE      1979 C
  120  MA  NORFOLK         N WEYMOUTH            EDGAR                           PWR   FOSL  EXPAN   0  US DOE      1979 B
  125  MA  NORFOLK         WEYMOUTH              COAL GAS PLANT                  SYN   COAL  PROP   89  ANONYMOUS   1980 D
  130  MA  NORFOLK                               WEST MEDWAY                     PWR   FOSL  EXIST   0  US DOE      1979 B
  135  MA  NORFOLK                               ALLEN STREET                    PWR   FOSL  EXIST   0  US DOE      1979 B
  140  MA  NORFOLK                               POTTER STATION                  PWR   FOSL  EXIST   0  US DOE      1979 B
  145  MA  PLYMOUTH                              PILGRIM                         PWR   NUKE  EXPAN  85  US DOE      1979 B
  150  MA  PLYMOUTH                              WINETUXENT RIVER DAM            PWR   HYD   PROP    0  NOAA  1980 A
  155  MA  PLYMOUTH        EARCHAM               TREMONT MILL POND DAM           PWR   HYD   PROP    0  NOAA  1980 A
  160  MA  BARNSTABLE      SANDWICH              CANAL                           PWR   FOSL  EXIST   0  US DOE      1979 B
  165  MA  BARNSTABLE      BARNSTABLE AIRPT      CREW CHANGE                     O/G   BASE  EXIST   0  NOAA  1980 A
  170  MA  DUKES                                 OAK BLUFFS                      PWR   FOSL  EXIST   0  US DOE      1979 B
  175  MA  DUKES                                 WEST TISBURY                    PWR   FOSL  EXPAN  83  US DOE      1979 B
  180  MA  BRISTOL                               CANNON STREET                   PWR   FOSL  EXPAN  84  US DOE      1979 B
  185  MA  BRISTOL         SOMERSET              BRAYTON POINT                   PWR   COAL  EXIST   0  US DOE      1979 B
  186  MA  BRISTOL         SOMERSET              BRAYTON POINT 3                 PWR   COAL  EXPAN  82  NERC  1980 A
  190  MA  BRISTOL         TAUNTON               CLEARY-FLOOD                    PWR   FOSL  EXIST   0  US DOE      1979 B
  200  MA  BRISTOL                               WEST WATER STREET               PWR   FOSL  EXIST   0  US DOE      1979 B
  205  MA  BRISTOL         SOMERSET              SOMERSET                        PWR   FOSL  EXPAN  87  US DOE      1979 B
  210  MA  BRISTOL         SOMERSET              MONTAUP                         PWR   FOSL  EXPAN   0  NOAA  1980 A
  215  MA  BRISTOL         FALL RIVER            EG/G SYNFUELS  MED BTU GAS      SYN   COAL  PROP    0  ANONYMOUS   1980 V
  220  MA  BRISTOL         NEW BEDFORD           REFINERY                        O/G   REFN  POST    0  MAIRE MURPHY, NERBC
  225  MA  BRISTOL         NEW BEDFORD           G/G EXPLORATION BASE            O/G   BASE  PROP    0  NOAA  1980 A
  230  MA  BRISTOL         FALL RIVER            NEW ENGLAND LNG                 O/G   LNG   PROP    0  NOAA  1980 A
  235  MA  INLAND                                LOWHEAD HYDRO                   PWR   HYD   PROP    0  CURT LAFFIN, FWS
  240  MA  OCS             NO ATLANTIC           SALE 42                         O/G   EXPL  EXIST   0  BLM   1980 D
  245  MA  OCS             NO ATLANTIC           SALE 52                         O/G   EXPL  PROP   82  BLM   1980 D
  250  RI  NEWPORT                               JEPSON                          PWR   FOSL  EXIST   0  US DOE      1979 B
  255  RI  NEWPORT                               NEWPORT                         PWR   FOSL  EXIST   0  US DOE      1979 B
  260  RI  NEWPORT                               UNSITED                         PWR   FOSL  PROP   82  US DOE      1979 B
  265  RI  NEWPORT         BRISTOL               ELDRED                          PWR   FOSL  EXIST   0  US DOE      1979 B
  270  RI  NEWPORT         BLOCK ISLAND          WIND TURBINE                    PWR   WIND  EXIST   0  EMMETT TURNER, US DOE
  275  RI  NEWPORT         MIDDLETOWN            SPR                             O/G   SPR   POST    0  NOAA  1980 A
  280  RI  NEWPORT         PORTSMOUTH            SPR                             O/G   SPR   POST    0  NOAA  1980 A
  285  RI  NEWPORT         PRUDENCE ISLAND       LNG-TAPCO ALTERNATIVE           O/G   LNG   POST    0  NOAA  1980 A
  290  RI  PROVIDENCE      PROVIDENCE            MANCHESTER STREET               PWR   FOSL  EXIST   0  US DOE      1979 B
  295  RI  PROVIDENCE                            SOUTH STREET                    PWR   FOSL  EXIST   0  US DOE      1979 B
  300  RI  PROVIDENCE                            NORTH SHOREHAM                  PWR   FOSL  EXIST   0  US DOE      1979 B
  305  RI  PROVIDENCE      WOONSOCKET            PROVIDENCE                      PWR   HYD   EXIST   0  US DOE      1979 B
  310  RI  PROVIDENCE      CRANSTON              SOLID WASTE/COGENERATION        PWR   WAST  EXIST   0  NOAA  1980 A
  315  RI  PROVIDENCE      EAST PROVIDENCE       MOBILOIL                        O/G   REFN  EXIST   0  US DOE      1980 A
  320  RI  KENT            QUONSETT-DAVISVILLE   40-60 OCS SERVICE INDUSTRIES    O/G   BASE  EXIST   0  USGS  1979
  325  RI  KENT            QUONSETT-DAVISVILLE   PLATFORM FABRICATION            O/G   OCSR  POST    0  NOAA  1980 A
  330  RI  WASHINGTON      BRADFORD              WESTERLY LNG                    O/G   LNG   POST    0  NOAA  1980
  335  RI  WASHINGTON      CHARLESTOWN           NEP 1/2                         PWR   NUKE  PROP    0  NOAA  1980
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                                                                                                                    PAGE NO. 3
8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO   LO   CO               CITY                FAC                               TYPE  CODE  ST      YR  REF
  340  CT   NEW LONDON                           GILMAN                            PWR   HYD   EXIST    0  US DOE      1979 B
  345  CT   NEW LONDON       UNCASVILLE          MONTVILLE                         PWR   FOSL  EXIST    0  US DOE      1979 B
  350  CT   NEW LONDON                           TAFTVILLE                         PWR   HYD   EXIST    0  US DOE      1979 B
  355  CT   NEW LONDON                           TUNNEL                            PWR   HYD   EXIST    0  US DOE      1979 B
  360  CT   NEW LONDON       HARTFORD            MILLSTONE                         PWR   NUKE  EXPAN   86  US DOE      1979 B
  365  CT   NEW LONDON       USN BASE            NEW LONDON                        PWR   FOSL  EXIST    0  US DOE      1979 B
  370  CT   NEW LONDON       NORWICH             2ND STREET                        PWR   HYD   EXIST    0  US DOE      1979 B
  375  CT   NEW LONDON       NORWICH             NORTH MAIN                        PWR   FOSL  EXIST    0  US DOE      1979 B
  380  CT   NEW LONDON       NORWICH             OCCUM                             PWR   HYD   EXIST    0  US DOE      1979 B
  385  CT   NEW LONDON                           10TH STREET                       PWR   HYD   EXIST    0  US DOE      1979 B
  390  CT   MIDDLESEX                            HADDAM NECK                       PWR   NUKE  EXIST    0  US DOE      1979 B
  395  CT   MIDDLESEX        MIDDLETOWN          MIDDLETOWN                        PWR   FOSL  EXIST    0  US DOE      1979 B
  400  CT   NEW HAVEN                            BRANFORD                          PWR   FOSL  EXIST    0  US DOE      1979 B
  405  CT   NEW HAVEN        MILFORD             DEVON                             PWR   FOSL  EXIST    0  US DOE      1979 B
  410  CT   NEW HAVEN                            ENFIELD                           PWR   FOSL  EXIST    0  US DOE      1979 B
  415  CT   NEW HAVEN                            SHEPAUG                           PWR   HYD   EXIST    0  US DOE      1979 B
  420  CT   NEW HAVEN        NEW HAVEN           ENGLISH                           PWR   FOSL  EXIST    0  US DOE      1979 B
  425  CT   NEW HAVEN        NEW HAVEN           NEW HAVEN HARBOR                  PWR   FOSL  EXIST    0  US DOE      1979 B
  430  CT   NEW HAVEN        WALLINGFORD         PIERCE                            PWR   COAL  EXIST    0  US DOE      1979 B
  435  CT   FAIRFIELD                            COS COB                           PWR   FOSL  EXIST    0  US DOE      1979 B
  440  CT   FAIRFIELD        SO NORWALK          NORWALK HARBOR                    PWR   FOSL  EXIST    0  US DOE      1979 B
  445  CT   FAIRFIELD                            STEVENSON                         PWR   HYD   EXIST    0  US DOE      1979 B
  450  CT   FAIRFIELD                            SOUTH NORWALK                     PWR   FOSL  EXIST    0  US DOE      1979 B
  455  CT   FAIRFIELD        BRIDGEPORT          BRIDGEPORT HARBOR                 PWR   FOSL  EXIST    0  US DOE      1979 B
  460  CT   FAIRFIELD        BRIDGEPORT          STEEL POINT                       PWR   FOSL  EXIST    0  US DOE      1979 B
  465  NY   WESTCHESTER                          INDIAN POINT                      PWR   NUKE  EXIST    0  US DOE      1979 B
  470  NY   WESTCHESTER                          INDIAN POINT                      PWR   FOSL  EXIST    0  US DOE      1979 B
  475  NY   SUFFOLK                              JAMESPORT                         PWR   NUKE  PROP    89  US DOE      1979 B
  480  NY   SUFFOLK                              GREENPORT                         PWR   FOSL  EXIST    0  US DOE      1979 B
  485  NY   SUFFOLK                              EAST HAMPTON                      PWR   FOSL  EXIST    0  US DOE      1979 B
  490  NY   SUFFOLK                              MONTAUK                           PWR   FOSL  EXIST    0  US DOE      1979 B
  495  NY   SUFFOLK          PORT JEFFERSON      PORT JEFFERSON                    PWR   FOSL  EXIST    0  US DOE      1979 B
  496  NY   SUFFOLK          PORT JEFFERSON      PORT JEFFERSON 3/4                PWR   COAL  EXPAN   84  NERC  1980 A
  500  NY   SUFFOLK          NORTHPORT           NORTHPORT                         PWR   FOSL  EXIST    0  US DOE      1979 B
  505  NY   SUFFOLK                              SHOREHAM                          PWR   NUKE  PROP    83  US DOE      1979 B
  510  NY   SUFFOLK                              SHOREHAM                          PWR   FOSL  EXIST    0  US DOE      1979 B
  515  NY   SUFFOLK                              SOUTHAMPTON                       PWR   FOSL  EXIST    0  US DOE      1979 B
  520  NY   SUFFOLK                              SOUTHOLD                          PWR   FOSL  EXIST    0  US DOE      1979 B
  525  NY   SUFFOLK          CENTERREACH         WEST BABYLON                      PWR   FOSL  EXIST    0  US DOE      1979 B
  530  NY   SUFFOLK          CENTERREACH         HOLBROOK                          PWR   FOSL  EXIST    0  US DOE      1979 B
  535  NY   NASSAU                               ROCKVILLE                         PWR   FOSL  EXIST    0  US DOE      1979 B
  540  NY   NASSAU                               FREEPORT 1/2                      PWR   FOSL  EXIST    0  US DOE      1979 B
  545  NY   NASSAU           ISLAND PARK         BARRETT                           PWR   FOSL  EXIST    0  US DOE      1979 B
  550  NY   NASSAU           GLENWOOD            GLENWOOD                          PWR   WAST  EXIST    0  US DOE      1979 B
  555  NY   NASSAU                               MITCHELL GARDENS                  PWR   WAST  EXIST    0  US DOE      1979 B
  560  NY   QUEENS           NYC                 ASTORIA                           PWR   FOSL  EXIST    0  US DOE      1979 B
  565  NY   QUEENS           NYC                 RAVENSWOOD                        PWR   FOSL  EXIST    0  US DOE      1979 B
  566  NY   QUEENS           NYC                 RAVENSWOOD 3                      PWR   COAL  PROP    81  NERC  1980 A
  570  NY   QUEENS           NYC                 FAR ROCKAWAY                      PWR   FOSL  EXIST    0  US DOE      1979 B
  575  NY   KINGS            NYC                 GOWANUS                           PWR   FOSL  EXIST    0  US DOE      1979 B
  580  NY   KINGS            NYC                 HUDSON AVE                        PWR   FOSL  EXIST    0  US DOE      1979 B
  585  NY   KINGS            NYC                 KENT AVE                          PWR   FOSL  EXIST    0  US DOE      1979 B
  590  NY   KINGS            NYC                 NARROWS                           PWR   FOSL  EXIST    0  US DOE      1979 B
  595  NY   NEW YORK         MANHATTAN           SYNFUELS/FUEL FROM SLUDGE         SYN   BIOM  PROP     0  ANONYMOUS   1980 V
  600  NY   NEW YORK         NYC                 EAST RIVER                        PWR   FOSL  EXIST    0  US DOE      1979 B
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                                                                                                         PAGE NO. 4

8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
   NO  LO  CO              CITY                 FAC                            TYPE  CODE  ST     YR  REF
  605  NY  NEW YORK        NYC                  WATERSIDE                      PWR   FOSL  EXIST   0  US DOE     1979 B
  610  NY  NEW YORK        NYC                  59TH STREET                    PWR   FOSL  EXIST   0  US DOE     1979 B
  615  NY  NEW YORK        NYC                  74TH STREET                    PWR   FOSL  EXIST   0  US DOE     1979 B
  620  NY  NEW YORK        NEW YORK HARBOR      PORT/MAX 50,000 DWT            TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
  625  NY  NEW YORK        NY OFFSHORE          ALCOHOL FROM WASTE             SYN   BIOM  PROP    0  ANONYMOUS  1980 H
  630  NY  RICHMOND        STATEN ISLAND        ARTHUR KILL                    PWR   FOSL  EXIST   0  US DOE     1979 B
  631  NY  RICHMOND        STATEN ISLAND        ARTHUR KILL 2/3                PWR   COAL  PROP   82  NERC  1980 A
  635  NY  RICHMOND                             FOSSIL                         PWR   COAL  PROP   89  US DOE     1979 B
  640  NY  RICHMOND        STATEN ISLAND        ENERGY TERMINAL SERVICE        O/G   LNG   PROP    0  US DOE     1979 C
  645  NY  RICHMOND        ROSSVILLE, STATEN IS TEXAS EASTERN CRYOGENICS       O/G   LNG   PROP    0  US DOE     1979 C
  650  NY  RICHMOND        STATEN ISLAND        LNG-PEAKING FACILITY           O/G   LNG   EXIST   0  NJ DOE, 1980
  655  NY  RICHMOND        STATEN ISLAND        FRESH KILL LANDFILL            SYN   BIOM  PROP    0  ANONYMOUS  1980 E
  656  NY  RICHMOND        STATEN ISLAND        LANDFILL GAS RECOVERY          SYN   BIOM  POST    0  ANONYMOUS, 1980 S
  660  NJ  BERGEN                               BERGEN                         PWR   FOSL  EXIST   0  US DOE     1979 B
  665  NJ  HUDSON                               BAYONNE                        PWR   FOSL  EXIST   0  US DOE     1979 B
  670  NJ  HUDSON                               HUDSON                         PWR   FOSL  EXIST   0  US DOE     1979 B
  675  NJ  HUDSON          KEARNY               KEARNY                         PWR   FOSL  EXIST   0  US DOE     1979 B
  680  NJ  ESSEX           NEWARK               ESSEX                          PWR   FOSL  EXIST   0  US DOE     1979 B
  685  NJ  UNION           UNION                LINDEN                         PWR   FOSL  EXIST   0  US DOE     1979 B
  690  NJ  UNION           LINDEN               EXXON                          O/G   REFN  EXIST   0  US DOE     1980 A
  695  NJ  MIDDLESEX       NEW BRUNSWICK        EDISON                         PWR   FOSL  EXIST   0  US DOE     1979 B
  700  NJ  MIDDLESEX       SEAWAREN             SEAWAREN                       PWR   FOSL  EXIST   0  US DOE     1979 B
  705  NJ  MIDDLESEX       SOUTH RIVER          WHITEHEAD                      PWR   FOSL  EXIST   0  US DOE     1979 B
  710  NJ  MIDDLESEX       NEW BRUNSWICK        WERNER                         PWR   FOSL  EXIST   0  US DOE     1979 B
  715  NJ  MIDDLESEX       SAYREVILLE           SAYREVILLE                     PWR   FOSL  EXIST   0  US DOE     1979 B
  720  NJ  MIDDLESEX       PERTH AMBOY          CHEVRON                        O/G   REFN  EXIST   0  US DOE     1980 A
  725  NJ  MIDDLESEX       PORT READING         AMERADA HESS CORP              O/G   REFN  EXIST   0  US DOE     1980 A
  726  NJ  MIDDLESEX                            PLASTIC/LEAF ALT FUEL          SYN   BIOM  PROP   82  ANONYMOUS, 1980 S
  730  NJ  MONMOUTH        SANDY HOOK           WIND POWER                     PWR   WIND  PROP    0  NJ DOE, 1980
  735  NJ  MONMOUTH        ASBURY PARK          OCS GAS PIPE                   TRAN  PIPE  POST    0  NJ DOE     1980
  740  NJ  OCEAN           DOVER TOWNSHIP       SOLID WASTE                    PWR   WAST  PROP    0  NOAA  1980 A
  745  NJ  OCEAN           LITTLE EGG INLET     ATLANTIC                       PWR   COAL  POST    0  NOAA  1980 A
  750  NJ  OCEAN                                OYSTER CREEK                   PWR   NUKE  EXIST   0  US DOE     1979 B
  755  NJ  OCEAN                                FORKED RIVER(NUKE OR COAL)     PWR   NUKE  PROP   86  US DOE     1979 B
  760  NJ  OCEAN           ISLAND BEACH         OCS GAS PIPE                   TRAN  PIPE  POST    0  NJ DOE     1980
  765  NJ  ATLANTIC                             MISSOURI AVE                   PWR   FOSL  EXIST   0  US DOE     1979 B
  770  NJ  ATLANTIC        UNSITED              UNSITED                        PWR   FOSL  PROP   82  US DOE     1979 B
  775  NJ  ATLANTIC        ATLANTIC CITY        PETROLEUM HELICOPTERS          O/G   BASE  EXIST   0  USGS  1979
  780  NJ  ATLANTIC        ATLANTIC CITY        OCS GAS PIPE                   TRAN  PIPE  POST    0  NJ DOE     1980
  785  NJ  CAPE MAY        BASLEYS POINT        ENGLAND                        PWR   COAL  EXIST   0  US DOE     1979 B
  790  NJ  CAPE MAY                             MIDDLE                         PWR   FOSL  EXIST   0  US DOE     1979 B
  795  NJ  CAPE MAY        SEA ISLE CITY        OCS GAS PIPE                   TRAN  PIPE  POST    0  NJ DOE     1980
  800  NJ  CUMBERLAND                           HOWARD DOWN                    PWR   FOSL  EXIST   0  US DOE     1979 B
  805  NJ  CUMBERLAND                           WEST                           PWR   FOSL  EXIST   0  US DOE     1979 B
  810  NJ  CUMBERLAND                           CARLLS CORNER                  PWR   FOSL  EXIST   0  US DOE     1979 B
  815  NJ  CUMBERLAND                           CEDAR                          PWR   FOSL  EXIST   0  US DOE     1979 B
  820  NJ  SALEM           DEEPWATER            DEEPWATER                      PWR   FOSL  EXIST   0  US DOE     1979 B
  825  NJ  SALEM                                DEEPWATER                      PWR   COAL  PROP   87  US DOE     1979 B
  830  NJ  SALEM           DELAWARE RIVER       SALEM                          PWR   NUKE  EXPAN  83  US DOE     1979 B
  835  NJ  SALEM           DELAWARE RIVER       HOPE CREEK                     PWR   NUKE  PROP   84  US DOE     1979 B
  840  NJ  OCS             MID-ATLANTIC         SALES 40/49                    O/G   EXPL  EXIST   0  BLM   1980 D
  845  NJ  OCS             MID-ATLANTIC         SALE 59                        O/G   EXPL  PROP   81  BLM   1980 D
  850  DE  NEW CASTLE                           CHRISTIANA                     PWR   FOSL  EXIST   0  US DOE     1979 B
  855  DE  NEW CASTLE      DELAWARE CITY        DELAWARE CITY                  PWR   FOSL  EXIST   0  US DOE     1979 B
  860  DE  NEW CASTLE      EDGEMOOR             EDGEMOOR                       PWR   FOSL  EXPAN   0  US DOE       79 B
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                                                                                                   PAGE NO. 5
8:47     1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
    NO  LO  CO              CITY                 FAC                             TYPE  CODE  ST    YR  REF
   865  DE  NEW CASTLE                           MADISON STREET                  PWR   FOSL  EXIST  0  US DOE      1979 B
   870  DE  NEW CASTLE                           WEST SUBSTATION                 PWR   FOSL  EXIST  0  US DOE      1979 B
   875  DE  NEW CASTLE      DELAWARE CITY        GETTY OIL                       O/G   REFN  EXIST  0  US DOE      1980 A
   880  DE  NEW CASTLE      MIDDLETOWN           SUMMIT POWER                    PWR   NUKE  PROP   0  NOAA  1980 A
   885  DE  NEW CASTLE      WILMINGTON           PIGEON POINT SOLID WASTE        SYN   BIOM  EXIST  0  NOAA  1980 A
   890  DE  KENT                                 KENT                            PWR   FOSL  EXIST  0  US DOE      1979 B
   895  DE  KENT            DOVER                MCKEE RUN                       PWR   FOSL  EXIST  0  US DOE      1979 B
   900  DE  SUSSEX          MILLSBORO            INDIAN RIVER                    PWR   COAL  EXPAN 80  US DOE      1979 B
   905  DE  SUSSEX                               LEWES                           PWR   FOSL  EXIST  0  US DOE      1979 B
   910  DE  SUSSEX                               SEAFORD                         PWR   FOSL  EXIST  0  US DOE      1979 B
   915  DE  SUSSEX          LEWES                OCS SUPPORT                     O/G   BASE  POST   0  NOAA  1980 A
   920  DE  KENT            BIG STONE BEACH/BAY  POTENTIAL COAL EXPORT TERMINAL  TRAN  COAL  POST   0  SOROS ASSOC      1980
   925  MD  DELMARVA PENN.                       SYNFUELS/ETHANOL FROM CROPS     SYN   BIOM  POST   0  ANONYMOUS  1980 V
   930  MD  WORCESTER                            BERLIN                          PWR   FOSL  EXIST  0  US DOE      1979 B
   935  MD  SOMERSET                             CRISFIELD                       PWR   FOSL  EXIST  0  US DOE      1979 B
   940  MD  SOMERSET        CRISFIELD            GEOTHERMAL EXPLORATION          OTHR  GEO   EXIST  0  EMMETT TURNER, US DOE
   945  MD  SOMERSET        CRISFIELD            DEEP WATER PORT                 TRAN  DPRT  POST   0  BERT BRUN, FWS
   950  MD  DORCHESTER      VIENNA               VIENNA                          PWR   FOSL  EXIST  0  US DOE      1979 B
   955  MD  DORCHESTER      VIENNA               VIENNA                          PWR   COAL  PROP  87  US DOE      1979 B
   960  MD  TALBOT                               EASTON                          PWR   FOSL  EXPAN 86  US DOE      1979 B
   961  MD  CAROLINE        FEDERALSBURG         ETHANOL DISTILLERY              SYN   BIOM  PROP  81  ANONYMOUS, 1980 A
   965  MD  CECIL                                CONOWINGO                       PWR   HYD   EXIST  0  US DOE      1979 B
   970  MD  HARFORD                              PERRYMAN                        PWR   FOSL  EXIST  0  US DOE      1979 B
   975  MD  BALTIMORE       BALTIMORE            CRANE                           PWR   FOSL  EXIST  0  US DOE      1979 B
   980  MD  BALTIMORE       BALTIMORE            GOULD STREET                    PWR   FOSL  EXIST  0  US DOE      1979 B
   985  MD  BALTIMORE       BALTIMORE            NOTCH CLIFF                     PWR   FOSL  EXIST  0  US DOE      1979 B
   990  MD  BALTIMORE       BALTIMORE            PHILADELPHIA RD                 PWR   FOSL  EXIST  0  US DOE      1979 B
   995  MD  BALTIMORE       BALTIMORE            RIVERSIDE                       PWR   FOSL  EXIST  0  US DOE      1979 B
  1000  MD  BALTIMORE       BALTIMORE            WESTPORT                        PWR   FOSL  EXIST  0  US DOE      1979 B
  1001  MD  BALTIMORE       BALTIMORE            ETHANOL FROM CORN/BREWERY       SYN   BIOM  PROP   0  ANONYMOUS, 1980 M
  1002  MD  BALTIMORE       BALTIMORE            SNG FROM WASTE/COAL             SYN   BIOM  PROP  86  ANONYMOUS, 1980 S
  1005  MD  BALTIMORE       UNSITED              UNSITED                         PWR   NUKE  PROP  86  US DOE      1979 B
  1010  MD  BALTIMORE       UNSITED              UNSITED                         PWR   COAL  PROP  87  US DOE      1979 B
  1011  MD  BALTIMORE       BALTIMORE            ETHANOL FROM CORN/CELLULOSE     SYN   BIOM  PROP   0  ANONYMOUS, 1980 S
  1015  MD  BALTIMORE       BALTIMORE            PORT/MAX 35,000 DWT             TRAN  PORT  EXIST  0  INTL PETROLEUM DIR   1979
  1020  MD  BALTIMORE       BALTIMORE            AMOCO OIL                       O/G   REFN  EXIST  0  US DOE      1980 A
  1025  MD  BALTIMORE       BALTIMORE            CHEVRON                         O/G   REFN  EXIST  0  US DOE      1980 A
  1030  MD  BALTIMORE       CURTIS BAY           CHESSIE COAL TERM/B-O RR        TRAN  COAL  EXIST  0  KEYSTONE COAL IND MAN, 197
  1035  MD  BALTIMORE       CANTON PIER          CONSOLIDATED RR                 TRAN  COAL  EXIST  0  KEYSTONE COAL IND MAN, 197
  1040  MD  BALTIMORE       BALTIMORE            ISLAND CREEK COAL CO            TRAN  COAL  PROP   0  ANONYMOUS  1980 J
  1045  MD  ANN ARUNDEL     BALTIMORE            WAGNER                          PWR   FOSL  EXIST  0  US DOE      1979 B
  1046  MD  ANNE ARUNDEL    MARLEY NECK          SOROS/COAL EXPORT PIER          TRAN  COAL  PROP  85  ANONYMOUS, 1980 B
  1050  MD  ANN ARUNDEL     BALTIMORE            BRANDON SHORES                  PWR   COAL  PROP  84  US DOE      1979 B
  1055  MD  CALVERT                              CALVERT CLIFFS                  PWR   NUKE  EXIST  0  US DOE      1979 B
  1060  MD  CALVERT         COVE POINT           COLUMBIA LNG                    O/G   LNG   EXIST  0  US DOE      1979 C
  1065  MD  ST MARYS                             OIL STORAGE                     TRAN  OIL   PROP   0  CHRIS OSTROM, MD DNR
  1070  MD  CHARLES         NEWBURG              MORGANTOWN                      PWR   COAL  EXIST  0  US DOE      1979 B
  1075  MD  PRINCE GEORGES  AQUASCO              CHALK POINT                     PWR   COAL  EXPAN 81  US DOE      1979 B
  1080  MD  CHESAPEAKE BAY                       CHANNEL DEEPENING BY COE        TRAN  DRDG  PROP  88  BERT BRUN, FWS
  1085  VA  ACCOMACK                             TASLEY                          PWR   FOSL  EXIST  0  US DOE      1979 B
  1090  VA  ACCOMACK                             TANGIER                         PWR   FOSL  EXIST  0  US DOE      1979 B
  1095  VA  NORTHAMPTON                          BAYVIEW                         PWR   FOSL  EXIST  0  US DOE      1979 B
  1100  VA  NORTHAMPTON                          CAPE CHARLES                    PWR   FOSL  EXIST  0  US DOE      1979 B
  1105  VA  RICHMOND                             NORTHERN NECK                   PWR   FOSL  EXIST  0  US DOE      1979 B
  1110  VA  YORK            YORKTOWN             YORKTOWN                        PWR   FOSL  EXIST  0  US DOE      1979 B
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8:47     1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO  LO  CO             CITY                   FAC                             TYPE  CODE  ST    YR  REF
1112  VA  YORK                                  WASTE/TO/ENERGY                 SYN   BIOM  POST   0  ANONYMOUS, 1980 S
1115  VA  YORK           USN                    NORFOLK NAVAL BASE              PWR   FOSL  EXIST  0  US DOE      1979 B
1120  VA  YORK           YORKTOWN               AMOCO OIL                       O/G   REFN  EXIST  0  NOAA  1980 B
1125  VA  NEWPORT NEWS   NEWPORT NEWS           CHESAPEAKE/OHIO RR (2 PIERS)    TRAN  COAL  EXIST  0  KEYSTONE COAL IND MAN, 197
1126  VA  NEWPORT NEWS   NEWPORT NEWS           MASSEY COAL EXPORT PIER         TRAN  COAL  PROP  82  ANONYMOUS, 1980 B
1130  VA  NEWPORT NEWS   HAMPTON ROADS          PORT/MAX 40,000 DWT             TRAN  PORT  EXIST  0  INTL PETROLEUM DIR   1979
1135  VA  SURRY                                 SURRY                           PWR   NUKE  EXIST  0  US DOE      1979 B
1140  VA  PORTSMOUTH                            PORTSMOUTH                      PWR   FOSL  EXIST  0  US DOE      1979 B
1142  VA  PORTSMOUTH     PORTSMOUTH             REFUSE-DERIVED FUEL PLANT       SYN   BIOM  PROP  85  ANONYMOUS, 1980 S
1145  VA  PORTSMOUTH     PORTSMOUTH             HAMPTON ROADS ENERGY CO         O/G   REFN  PROP  82  NOAA  1980 B
1150  VA  PORTSMOUTH     CRANEY ISLAND          COAL SUPERPORT                  TRAN  COAL  PROP   0  ANONYMOUS  1980 F
1155  VA  CHESAPEAKE     CHESAPEAKE             SWANN OIL                       O/G   REFN  POST   0  US DOE      1979 E
1160  VA  NORFOLK        LAMBERTS POINT         NORFOLK/WESTERN RR(2)           TRAN  COAL  EXIST  0  KEYSTONE COAL IND MAN, 197
1165  VA  CHESAPEAKE BAY DEEPWATER PORT         ENERGY CITY PROPOSAL            TRAN  DPRT  POST   0  ED WILSON, VIRGINIA
1170  NC  WASHINGTON                            WALTERS                         PWR   HYD   EXIST  0  US DOE      1979 B
1175  NC  DARE                                  BUXTON                          PWR   FOSL  EXIST  0  US DOE      1979 B
1180  NC  DARE                                  KITTY HAWK                      PWR   FOSL  EXIST  0  US DOE      1979 B
1185  NC  HYDE                                  HYDE                            PWR   FOSL  EXIST  0  US DOE      1979 B
1190  NC  CARTERET       MOREHEAD CITY          OCS SUPPORT                     O/G   BASE  PROP   0  BLM   1980 B
1195  NC  CARTERET                              MOREHEAD                        PWR   FOSL  EXIST  0  US DOE      1979 B
1200  NC  CARTERET       MOREHEAD CITY          CAROLINA REF/DIST               O/G   REFN  PROP   0  US DOE      1980 A
1205  NC  CARTERET                              LNG                             O/G   LNG   POST   0  NOAA  1980 A
1210  NC  CARTERET       MOREHEAD CITY          COAL EXPORT TERMINAL            TRAN  COAL  POST   0  ANONYMOUS  1980 J
1215  NC  NEW HANOVER                           OCS SUPPORT                     O/G   BASE  PROP   0  NOAA  1980 A
1220  NC  NEW HANOVER    WILMINGTON             SUTTON                          PWR   COAL  EXIST  0  US DOE      1979 B
1225  NC  NEW HANOVER    WILMINGTON             NEW HANOVER                     O/G   REFN  EXIST  0  NOAA  1980 B
1230  NC  NEW HANOVER    BELVILLE               BRUNSWICK ENERGY                O/G   REFN  PROP  83  NOAA  1980 B
1235  NC  NEW HANOVER    WILMINGTON             COAL EXPORT TERMINAL            TRAN  COAL  POST   0  ANONYMOUS  1980 J
1240  NC  BRUNSWICK      SOUTHPORT              OCS SUPPORT                     O/G   BASE  PROP   0  BLM   1980 B
1245  NC  BRUNSWICK      SOUTHPORT              BRUNSWICK                       PWR   NUKE  EXIST  0  US DOE      1979 B
1249  NC  COASTAL ZONE                          PEAT FUELED POWER PLANT         PWR   MISC  POST   0  ANONYMOUS, 1980 B
1250  NC  OCS            SOUTH ATLANTIC         OCS LEASE SALE 56               O/G   EXPL  PROP  81  BLM   1980 D
1255  SC  HORRY                                 GRAINGER                        PWR   COAL  EXIST  0  US DOE      1979 B
1260  SC  HORRY                                 MYRTLE BEACH                    PWR   FOSL  EXIST  0  US DOE      1979 B
1265  SC  GEORGETOWN     GEORGETOWN             WINYAH                          PWR   COAL  EXPAN 81  US DOE      1979 B
1270  SC  GEORGETOWN     GEORGETOWN             CAROLINA REF/DIST               O/G   REFN  PROP   0  US DOE      1980 A
1275  SC  GEORGETOWN     GEORGETOWN             OCS SUPPORT                     O/G   BASE  PROP   0  BLM   1980 B
1280  SC  CHARLESTON                            SYN/REFUSE TO SUPPLEMENT COAL   SYN   BIOM  POST   0  ANONYMOUS  1980 V
1285  SC  CHARLESTON     CHARLESTON             CHICAGO BRIDGE/IRON             O/G   LNG   POST   0  NOAA  1980 A
1290  SC  CHARLESTON                            FABER PLACE                     PWR   FOSL  EXIST  0  US DOE      1979 B
1295  SC  CHARLESTON                            HAGOOD                          PWR   FOSL  EXIST  0  US DOE      1979 B
1300  SC  CHARLESTON                            MOBILE                          PWR   FOSL  EXIST  0  US DOE      1979 B
1301  SC  CHARLESTON     CHARLESTON             DREDGING-S.3247/3258            TRAN  DRDG  POST   0  ANONYMOUS, 1980 G
1305  SC  CHARLESTON     CHARLESTON             OCS SUPPORT                     O/G   BASE  PROP   0  BLM   1980 B
1310  SC  BERKELEY                              JEFFERIES                       PWR   COAL  EXIST  0  US DOE      1979 B
1315  SC  BERKELEY                              SPILLWAY                        PWR   HYD   EXIST  0  US DOE      1979 B
1320  SC  BERKELEY                              ST STEPHEN                      PWR   HYD   EXIST  0  US DOE      1979 B
1325  SC  BERKELEY                              CROSS                           PWR   COAL  PROP  83  US DOE      1979 B
1330  SC  BERKELEY       ST STEPHEN             COOPER RIVER REDIVERSION        PWR   HYD   PROP   0  NOAA  1980 A
1335  SC  COLLETON                              CANADYS                         PWR   COAL  EXIST  0  US DOE      1979 B
1340  SC  BEAUFORT                              BURTON                          PWR   FOSL  EXIST  0  US DOE      1979 B
1345  SC  BEAUFORT                              BLUFFTON                        PWR   FOSL  EXIST  0  US DOE      1979 B
1350  SC  BEAUFORT                              HILTON HEAD                     PWR   FOSL  EXIST  0  US DOE      1979 B
1355  SC  BEAUFORT                              OCS SUPPORT                     O/G   BASE  POST   0  NOAA  1980 [illegible]
1360  SC  J[illegible]R                         HARDEEVILLE                     PWR   FOSL  EXIST  0  US DOE      [illegible]9 B
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8:47     1/26/81     APL DATA INTERFACE
COASTI;ALL;HSORT
    NO   LO   CO               CITY                 FAC                              TYPE  CODE  ST     YR  REF
  1365   SC   JASPER                                REFINERY                         O/G   REFN  POST    0  NOAA  1980 A
  1370   SC   OCS              SOUTH ATLANTIC       OCS SALE 56                      O/G   EXPL  PROP   81  BLM   1980 D
  1375   GA   CHATHAM                               BOULEVARD                        PWR   FOSL  EXIST   0  US DOE       1979 B
  1380   GA   CHATHAM          PORT WENTWORTH       PORT WENTWORTH                   PWR   FOSL  EXIST   0  US DOE       1979 B
  1385   GA   CHATHAM          SAVANNAH             RIVERSIDE                        PWR   FOSL  EXIST   0  US DOE       1979 B
  1390   GA   CHATHAM          SAVANNAH             AMOCO OIL                        O/G   REFN  EXIST   0  US DOE       1980 A
  1395   GA   CHATHAM          SAVANNAH             CAROLINA REF/DIST                O/G   REFN  PROP    0  US DOE       1980 A
  1400   GA   CHATHAM          SAVANNAH             SOUTHLAND OIL                    O/G   REFN  EXIST   0  US DOE       1980 A
  1405   GA   CHATHAM          ELBA ISLAND          SOUTHERN CO LNG                  O/G   LNG   EXIST   0  US DOE       1979 C
  1410   GA   CHATHAM          SAVANNAH             TENNECO                          O/G   BASE  EXIST   0  USGS  1980 C
  1415   GA   CHATHAM          SAVANNAH             PORT/MAX 35,000 DWT              TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
  1420   GA   GLYNN            ST SIMONS SOUND      MCMANUS                          PWR   FOSL  EXIST   0  US DOE       1979 B
  1425   GA   GLYNN            BRUNSWICK            GETTY OIL                        O/G   BASE  EXIST   0  USGS  1980 C
  1430   GA   GLYNN            BRUNSWICK            TRANSCO                          O/G   BASE  EXIST   0  USGS  1980 C
  1435   GA   GLYNN            ST SIMONS ISLAND     AIRPORT/OCS SUPPORT              O/G   BASE  EXIST   0  USGS  1980 C
  1440   GA   GLYNN            BRUNSWICK            GA/FLA OIL                       O/G   REFN  POST    0  USGS  1980 C
  1445   GA   OCS              SO ATLANTIC          OCS LEASE SALE 43                O/G   EXPL  EXIST   0  USGS  1980 C
  1450   GA   OCS              SO ATLANTIC          OCS LEASE SALE 56                O/G   EXPL  PROP   81  BLM   1980 D
  1455   FL   NASSAU                                LIME STREET                      PWR   FOSL  EXIST   0  US DOE       1979 B
  1460   FL   DUVAL            JACKSONVILLE         KENNEDY                          PWR   FOSL  EXIST   0  US DOE       1979 B
  1465   FL   DUVAL            JACKSONVILLE         NORTHSIDE                        PWR   FOSL  EXIST   0  US DOE       1979 B
  1470   FL   DUVAL            JACKSONVILLE         SOUTHSIDE                        PWR   FOSL  EXIST   0  US DOE       1979 B
  1475   FL   DUVAL            JACKSONVL/BLOUNT IS  COAL-OIL MIXTURE PREP PLANT      SYN   COAL  POST    0  ANONYMOUS    1980 V
  1480   FL   DUVAL            JACKSONVILLE         OFFSHORE POWER SYSTEMS           OTHR  MISC  EXIST   0  NOAA  1980 A
  1485   FL   DUVAL            JACKSONVILLE         3 OCS SERVICE INDUSTRIES         O/G   BASE  EXIST   0  BLM   1978 B
  1490   FL   DUVAL            JACKSONVILLE         PORT/MAX 50,000 DWT              TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
  1495   FL   VOLUSIA                               SANFORD                          PWR   FOSL  EXIST   0  US DOE       1979 B
  1500   FL   VOLUSIA                               TURNER                           PWR   FOSL  EXIST   0  US DOE       1979 B
  1505   FL   VOLUSIA                               DEBARY                           PWR   FOSL  EXIST   0  US DOE       1979 B
  1510   FL   VOLUSIA                               NEW SMYRA                        PWR   FOSL  EXIST   0  US DOE       1979 B
  1515   FL   VOLUSIA                               PEAK PLANT                       PWR   FOSL  EXIST   0  US DOE       1979 B
  1520   FL   VOLUSIA                               W E SWOOPE                       PWR   FOSL  EXIST   0  US DOE       1979 B
  1525   FL   BREVARD          COCOA                CAPE CANAVERAL                   PWR   FOSL  EXIST   0  US DOE       1979 B
  1530   FL   BREVARD          TITUSVILLE           INDIAN RIVER                     PWR   FOSL  EXPAN  82  US DOE       1979 B
  1535   FL   BREVARD          PORT CANAVERAL       PIPELINE                         TRAN  PIPE  EXIST   0  NOAA  1980 A
  1540   FL   INDIAN RIVER     VERO BEACH           MUNICIPAL PLANT                  PWR   FOSL  EXIST   0  US DOE       1979 B
  1545   FL   ST LUCIE         FORT PIERCE          ST LUCIE                         PWR   NUKE  EXPAN  83  US DOE       1979 B
  1550   FL   ST LUCIE         FORT PIERCE          KING                             PWR   FOSL  EXIST   0  US DOE       1979 B
  1555   FL   MARTIN           PALMBEACH            MARTIN                           PWR   FOSL  EXIST   0  NOAA  1980 A
  1560   FL   PALM BEACH       LAKE WORTH INLET     OIL STORAGE                      TRAN  OIL   EXIST   0  NOAA  1980 A
  1565   FL   PALM BEACH       VARIOUS              2 OCS SERVICE INDUSTRIES         O/G   BASE  EXIST   0  BLM   1978 B
  1570   FL   PALM BEACH       RIVIERA BEACH        RIVIERA                          PWR   FOSL  EXIST   0  US DOE       1979 B
  1575   FL   PALM BEACH                            TOM G SMITH                      PWR   FOSL  EXIST   0  US DOE       1979 B
  1580   FL   BROWARD          FORT LAUDERDALE      LAUDERDALE                       PWR   FOSL  EXIST   0  US DOE       1979 B
  1585   FL   BROWARD          PORT EVERGLADES      PORT EVERGLADES                  PWR   FOSL  EXIST   0  US DOE       1979 B
  1590   FL   BROWARD          PORT EVERGLADES      PORT/MAX 50,000 DWT              TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
  1595   FL   BROWARD                               TRANSMISSION LINE RELAY SYS      OTHR  MISC  PROP    0  NOAA  1980 A
  1600   FL   BROWARD          VARIOUS              2 OCS SERVICE INDUSTRIES         O/G   BASE  EXIST   0  BLM   1978 B
  1605   FL   DADE             HIALEAH              RESOURCE RECOVERY INC            PWR   WAST  EXIST   0  NOAA  1980 A
  1607   FL   DADE             MIAMI                ETHANOL FROM CELLULOSIC TRASH    SYN   BIOM  POST    0  ANONYMOUS,   1980 S
  1610   FL   DADE                                  MOBILE TRAILER                   PWR   FOSL  EXIST   0  US DOE       1979 B
  1615   FL   DADE             FLORIDA CITY         TURKEY POINT                     PWR   FOSL  EXIST   0  US DOE       1979 B
  1620   FL   DADE             FLORIDA CITY         TURKEY POINT                     PWR   NUKE  EXIST   0  US DOE       1979 B
  1625   FL   DADE             HOMESTEAD            GW IVEY                          PWR   FOSL  EXIST   0  US DOE       1979 B
  1630   FL   DADE             SO MIAMI             CUTLER                           PWR   FOSL  EXIST   0  US DOE       1979 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO   LO  CO               CITY                  FAC                               TYPE  CODE  ST     YR  REF
 1635  FL  DADE             MIAMI                 PORT/MAX 20.000 DWT               TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 1640  FL  DADE                                   2 OCS SERVICE INDUSTRIES          O/G   BASE  EXIST   0  BLM    1978 B
 1645  FL  ESCAMBIA                               CRIST                             PWR   COAL  EXIST   0  US DOE       1979 B
 1650  FL  ESCAMBIA         USN-PENSACOLA         TR CENT                           PWR   FOSL  EXIST   0  US DOE       1979 B
 1655  FL  ESCAMBIA         PENSACOLA             MARINE TERMINAL                   TRAN  MTER  PROP    0  BLM    1979 B
 1660  FL  ESCAMBIA         PENSACOLA             GAS PROCESSING PLANT              O/G   GAS   PROP    0  BLM    1979 B
 1665  FL  SANTA ROSA                             ONSHORE OIL/GAS EXPLORATION       O/G   WELL  EXIST   0  NOAA   1980 A
 1670  FL  SANTA ROSA       JAY                   EXXON GAS PLANT                   O/G   GAS   EXIST   0  BLM    1978 B
 1675  FL  WALTON                                 PORTLAND                          PWR   FOSL  EXIST   0  US DOE       1979 B
 1680  FL  BAY                                    SMITH                             PWR   COAL  EXIST   0  US DOE       1979 B
 1685  FL  BAY              PANAMA CITY           OCS SUPPORT                       O/G   BASE  PROP    0  BLM    1979 B
 1690  FL  GULF             PORT ST JOE           PORT ST JOE                       PWR   FOSL  EXIST   0  US DOE       1979 B
 1695  FL  WAKULLA                                PURDOM                            PWR   FOSL  EXIST   0  US DOE       1979 B
 1700  FL  WAKULLA          ST MARKS              SEMINOLE ASPHALT RFG              O/G   REFN  EXIST   0  US DOE       1979 E
 1705  FL  CITRUS                                 CRYSTAL RIVER                     PWR   NUKE  EXIST   0  US DOE       1979 B
 1710  FL  CITRUS                                 CRYSTAL RIVER                     PWR   COAL  EXPAN  82  US DOE       1979 B
 1715  FL  PASCO                                  ANCLOTE                           PWR   FOSL  EXIST   0  US DOE       1979 B
 1720  FL  PINELLAS                               BAYBORO                           PWR   FOSL  EXIST   0  US DOE       1979 B
 1725  FL  PINELLAS                               HIGGINS                           PWR   FOSL  EXIST   0  US DOE       1979 B
 1730  FL  PINELLAS         ST PETERSBURG         BARTOW                            PWR   FOSL  EXIST   0  US DOE       1979 B
 1735  FL  PINELLAS         ST PETERSBURG         SYNFUELS/MED BTU GAS              SYN   COAL  POST    0  ANONYMOUS    1980 V
 1740  FL  HILLSBOROUGH     TAMPA                 BADGER PIPE/OCS SUPPORT           O/G   OCSR  EXIST   0  BLM    1978 B
 1745  FL  HILLSBOROUGH                           BIG BEND                          PWR   COAL  EXPAN  85  US DOE       1979 B
 1750  FL  HILLSBOROUGH                           BIG BEND                          PWR   FOSL  EXPAN  83  US DOE       1979 B
 1755  FL  HILLSBOROUGH                           GANNON                            PWR   FOSL  EXIST   0  US DOE       1979 B
 1760  FL  HILLSBOROUGH                           HOOKERS POINT                     PWR   FOSL  EXIST   0  US DOE       1979 B
 1765  FL  MANATEE                                MANATEE                           PWR   FOSL  EXIST   0  US DOE       1979 B
 1770  FL  MANATEE          PALMETTO              MANATEE ENERGY CO                 O/G   REFN  EXIST   0  US DOE       1980 A
 1775  FL  MANATEE          PORT MANATEE          OCS SERVICE BASE                  O/G   BASE  PROP    0  BLM    1980 C
 1780  FL  MANATEE          PORT MANATEE          MARINE TERMINAL                   TRAN  MTER  PROP    0  BLM    1980 C
 1785  FL  MANATEE          PORT MANATEE          ONSHORE OIL STORAGE               TRAN  OIL   PROP    0  BLM    1980 C
 1790  FL  MANATEE                                PIPELINE OCS                      TRAN  PIPE  PROP    0  BLM    1980 C
 1795  FL  CHARLOTTE        BOCA GRANDE           OCS SERVICE BASE                  O/G   BASE  PROP    0  BLM    1980 C
 1800  FL  CHARLOTTE        BOCA GRANDE           ONSHORE OIL STORAGE               TRAN  OIL   PROP    0  BLM    1980 C
 1805  FL  CHARLOTTE        BOCA GRANDE           PIPELINE OCS                      TRAN  PIPE  PROP    0  BLM    1980 C
 1810  FL  CHARLOTTE        BOCA GRANDE           MARINE TERMINAL                   TRAN  MTER  PROP    0  BLM    1980 C
 1815  FL  LEE                                    FORT MEYERS                       PWR   FOSL  EXIST   0  US DOE       1979 B
 1820  FL  LEE                                    WOODRUFF                          PWR   HYD   EXIST   0  US DOE       1979 B
 1825  FL  LEE              LEHIGH FIELD          OIL/GAS PRODUCTION                O/G   WELL  EXIST   0  NOAA   1980 A
 1830  FL  MONROE           MARATHON              MARATHON                          PWR   FOSL  EXIST   0  US DOE       1979 B
 1835  FL  MONROE           KEY WEST              KEY WEST                          PWR   FOSL  EXIST   0  US DOE       1979 B
 1840  FL  MONROE                                 STOCK ISLAND                      PWR   FOSL  EXIST   0  US DOE       1979 B
 1845  FL  MONROE                                 CUDJOE                            PWR   FOSL  EXIST   0  US DOE       1979 B
 1850  FL  GULF COAST       COASTAL AREA          143 OIL WELLS                     O/G   WELL  EXIST   0  FRENCH       1979
 1855  FL  OCS              EASTERN GULF          OCS SALE 66                       O/G   EXPL  PROP    0  BLM    1980 C
 1860  AL  MOBILE                                 BARRY                             PWR   COAL  EXIST   0  US DOE       1979 B
 1865  AL  MOBILE                                 CHICKASAW                         PWR   FOSL  EXIST   0  US DOE       1979 B
 1870  AL  MOBILE           SARALAND              LA LAND/EXPLORATION               O/G   REFN  EXIST   0  BLM    1978 B
 1875  AL  MOBILE           THEODORE              MARION CORP                       O/G   REFN  EXPAN   0  FRENCH       1979
 1880  AL  MOBILE           CHICKASAW             MOBILE BAY REFINING               O/G   REFN  EXIST   0  NOAA   1980 A
 1885  AL  MOBILE           MOBILE                GETTY OIL                         O/G   REFN  EXPAN   0  NOAA   1980 A
 1890  AL  MOBILE           DAPHNE                MARION CORP                       O/G   REFN  EXIST   0  NOAA   1980 A
 1895  AL  MOBILE           CITRONELLE            CITIES SERVICE GAS PLANT          O/G   GAS   EXIST   0  BLM    1978 B
 1900  AL  MOBILE           HATTERS POND          GETTY GAS PLANT                   O/G   GAS   EXIST   0  BLM    1978 B
 1905  AL  MOBILE                                 KAISER FABRICA[illegible]         O/G   OCSR  PROP    0  NOAA   1980
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO  LO  CO              CITY              FAC                             TYPE  CODE  ST     YR  REF
1910  AL  MOBILE          MOBILE            OCS SUPPORT                     O/G   OCSR  EXIST   0  BLM   1978 B
1915  AL  MOBILE          MOBILE            PORT/MAX 50,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR   1979
1920  AL  MOBILE          MCDUFFIE ISLAND   MCDUFFIE TERMINAL               TRAN  COAL  EXPAN   0  NOAA  1980 A
1925  AL  MOBILE          MOBILE            STATE COAL HANDLING DOCK        TRAN  COAL  EXIST   0  KEYSTONE COAL IND MAN, 197
1930  AL  MOBILE          CHUNCHULA         CHUNCHULA FIELD                 O/G   WELL  EXIST   0  NOAA  1980 A
1935  AL  MOBILE          MOBILE HARBOR     COAL FROM TENN-TOM WATERWAY     TRAN  COAL  PROP    0  BOB MISSO, FWS
1936  AL  MOBILE          MOBILE HARBOR     DREDGING PROJECT                TRAN  DRDG  PROP   90  ANONYMOUS, 1980 B
1940  AL  MOBILE          MOBILE            OCS SUPPORT                     O/G   BASE  PROP    0  BLM   1979 B
1945  AL  MOBILE          MOBILE            2 OCS SERVICE INDUSTRIES        O/G   BASE  EXIST   0  BLM   1978 B
1950  AL  MOBILE          MOBILE            GAS PROCESSING                  O/G   GAS   PROP    0  BLM   1979 B
1955  AL  MOBILE          MOBILE HARBOR     OFFSHORE OIL FIND               O/G   PLAT  PROP    0  SYD VERINDER, BLM NO OCS
1960  AL  OCS             GULF OCS          ACTIVE OCS LEASE AREA           O/G   EXPL  EXIST   0  BLM   1980 C
1965  AL  OCS             GULF OCS          LEASE SALE 66                   O/G   EXPL  PROP   81  BLM   1980 C
1970  AL  MOBILE          ONSHORE           608 OIL WELLS                   O/G   WELL  EXIST   0  FRENCH       1979
1975  AL  MOBILE          STATE WATERS      STATE LEASES                    O/G   EXPL  EXIST   0  FRENCH       1979
1980  MS  HANCOCK                           PIPELINE LANDFALL               TRAN  PIPE  EXIST   0  BLM   1978 B
1985  MS  HANCOCK         PEARLINGTON       OIL STORAGE                     TRAN  OIL   EXIST   0  LARSON ET AL     1980
1990  MS  HANCOCK         PEARLINGTON       FABRICATION YARDS               O/G   OCSR  EXIST   0  LARSON ET AL     1980
1995  MS  HANCOCK         BAY ST LOUIS      OCS SERVICE BASE                O/G   BASE  EXIST   0  BLM   1978 B
2000  MS  HARRISON        GULFPORT          WATSON                          PWR   FOSL  EXIST   0  US DOE       1979 B
2005  MS  HARRISON                          PIPELINE LANDFALL               TRAN  PIPE  EXIST   0  BLM   1978 B
2010  MS  HARRISON        GULFPORT          OIL STORAGE                     TRAN  OIL   EXIST   0  LARSON ET AL     1980
2015  MS  HARRISON        PASS CHRISTIAN    OCS SERVICE BASE                O/G   BASE  PROP    0  BLM   1978 B
2020  MS  HARRISON        GULFPORT          OCS SERVICE BASE                O/G   BASE  PROP    0  BLM   1978 B
2025  MS  HARRISON        GULFPORT          FABRICATION YARDS               O/G   OCSR  EXIST   0  LARSON ET AL     1980
2030  MS  JACKSON         PASCAGOULA        STANDARD OIL                    PWR   FOSL  EXIST   0  US DOE       1979 B
2035  MS  JACKSON         MOSS POINT        VICTOR J DANIEL                 PWR   FOSL  EXIST   0  US DOE       1979 B
2040  MS  JACKSON         MOSS POINT        VICTOR J DANIEL                 PWR   COAL  PROP   81  US DOE       1979 B
2045  MS  JACKSON         PASCAGOULA        CHEVRON USA                     O/G   REFN  EXIST   0  FRENCH       1979
2050  MS  JACKSON         PASCAGOULA        TENNECO LNG                     O/G   LNG   PROP    0  NOAA  1980 A
2055  MS  JACKSON         PASCAGOULA        PORT/MAX 50,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR   1979
2060  MS  JACKSON                           PIPELINE LANDFALL               TRAN  PIPE  EXIST   0  BLM   1978 B
2065  MS  JACKSON         BILOXI            OCS SERVICE BASE                O/G   BASE  PROP    0  NOAA  1980 A
2070  MS  JACKSON         MOSS POINT        2 OCS SERVICE INDUSTRIES        O/G   BASE  EXIST   0  BLM   1978 B
2075  MS  JACKSON         PASCAGOULA        INGALLS SHIPBLDG FAB            O/G   OCSR  EXIST   0  BLM   1978 B
2080  MS  COASTAL ZONE    COASTAL AREA      2,237 OIL WELLS                 O/G   WELL  EXIST   0  FRENCH       1979
2085  MS  OCS             CENTRAL GULF      OCS EXPLORATION                 O/G   EXPL  PROP   80  BLM   1979 B
2090  LA  CALCASIEU       LAKE CHARLES      CITIES SERVICE                  O/G   REFN  EXPAN  80  US DOE       1979 E
2095  LA  CALCASIEU       LAKE CHARLES      LAKE CHARLES REFINING           O/G   REFN  EXIST   0  US DOE       1979 E
2100  LA  CALCASIEU       LAKE CHARLES      RESOURCE REFINING               O/G   REFN  PROP   80  US DOE       1979 E
2105  LA  CALCASIEU       LAKE CHARLES      PORT/MAX 40,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR   1979
2110  LA  CALCASIEU       VARIOUS           6 GAS PROCESSING PLANTS         O/G   GAS   EXIST   0  BLM   1978 B
2115  LA  CALCASIEU       WESTLAKE          CONTINENTAL OIL                 O/G   REFN  EXPAN  80  US DOE       1979 E
2120  LA  CALCASIEU       WESTLAKE          COAL TO SYNGAS                  SYN   COAL  PROP    0  ANONYMOUS  1980 N
2125  LA  CALCASIEU                         NELSON                          PWR   FOSL  EXIST   0  US DOE       1979 B
2130  LA  CALCASIEU                         NELSON                          PWR   COAL  PROP   82  US DOE       1979 B
2135  LA  CALCASIEU       LAKE CHARLES      TRUNKLINE LNG CO                O/G   LNG   EXIST   0  FRENCH       1979
2140  LA  CALCASIEU       SULFUR            SPR OIL STORAGE                 O/G   SPR   EXIST   0  NOAA  1980 A
2145  LA  CALCASIEU       SULFUR            GEOPRESSURED PROSPECT AREA      OTHR  GEO   PROP    0  GUSTAVSON ET AL 1977
2150  LA  CALCASIEU       VARIOUS           2 OCS SERVICE FAC               O/G   BASE  EXIST   0  BLM   1978 B
2155  LA  CAMERON         CAMERON           GETTY SUPPORT BASE              O/G   BASE  EXIST   0  NOAA  1980 A
2160  LA  CAMERON         WEST HACKBERRY    SPR OIL STORAGE                 O/G   SPR   EXPAN   0  NOAA  1980 A
2165  LA  CAMERON         GRAND CHENIER     SERVICE                         O/G   BASE  EXIST   0  BLM   1980 C
2170  LA  CAMERON                           OCS SUPPORT                     O/G   OCSR  EXIST   0  BLM   1978 B
2175  LA  CAMERON         CAMERON PARISH    24 PIPELINE LANDFALLS           TRAN  PIPE  EXIST   0  BLM   1978 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
    NO  LO  CO            CITY                  FAC                             TYPE  CODE  ST      YR  REF
  2180  LA  CAMERON       EASTERN COASTAL AREA  GETTY/BUTTES O/G CO             OTHR  GEO   EXIST    0  BLM   1979 A
  2185  LA  CAMERON                             9 GAS PROCESSING PLANTS         O/G   GAS   EXIST    0  BLM   1978 B
  2190  LA  CAMERON       JOHNSON BAYOU         GEOPRESSURED PROSPECT AREA      OTHR  GEO   PROP     0  BLM   1979 A
  2195  LA  VERMILLION    ERATH                 SEA ROBIN 3                     O/G   GAS   EXIST    0  NOAA  1980 A
  2200  LA  VERMILLION    ABBEVILLE             COASTAL STATES GAS              OTHR  GEO   EXIST    0  BLM   1979 A
  2205  LA  VERMILLION    VERMILLION PARISH     7 PIPELINE LANDFALLS            TRAN  PIPE  EXIST    0  BLM   1978 B
  2210  LA  VERMILLION    VERMILLION PARISH     TENNESSEE GAS PIPELINE CO       TRAN  PIPE  PROP     0  BLM   1978 B
  2215  LA  VERMILLION    GUEYDAN               MALLARD RESOURCES               O/G   REFN  EXIST    0  US DOE     1979 E
  2220  LA  VERMILLION                          10 GAS PROCESSING PLANTS        O/G   GAS   EXIST    0  BLM   1978 B
  2225  LA  VERMILLION                          4 OCS SERVICE INDUSTRIES        O/G   BASE  EXIST    0  BLM   1978 B
  2230  LA  VERMILLION    INTRACOASTAL CITY     SERVICE BASE                    O/G   BASE  EXIST    0  BLM   1980 C
  2235  LA  IBERIA        WEEKS ISLAND          SPR OIL STORAGE                 O/G   SPR   EXPAN    0  FRENCH     1979
  2240  LA  IBERIA        VARIOUS               3 GAS PROCESSING PLANTS         O/G   GAS   EXIST    0  BLM   1978 B
  2245  LA  IBERIA        VARIOUS               5 OCS SERVICE BASES             O/G   BASE  EXIST    0  BLM   1978 B
  2250  LA  IBERIA        NEW IBERIA            OASIS/ETHANOL REFINERY          SYN   BIOM  PROP    82  ANONYMOUS  1980 N
  2255  LA  ST MARY       VARIOUS               11 OCS SUPPORT IND              O/G   OCSR  EXIST    0  BLM   1978 B
  2260  LA  ST MARY       MORGAN CITY           SERVICE BASE                    O/G   BASE  EXIST    0  BLM   1980 C
  2265  LA  ST MARY       VARIOUS               30 OCS SERVICE IND              O/G   BASE  EXIST    0  BLM   1978 B
  2270  LA  ST MARY                             TECHE                           PWR   FOSL  EXIST    0  US DOE     1979 B
  2275  LA  ST MARY                             MORGAN CITY                     PWR   FOSL  EXIST    0  US DOE     1979 B
  2280  LA  ST MARY       ATCHAFALAYA RIVER     OCS SUPPORT IND                 O/G   OCSR  EXIST    0  BOB MISSO, FWS
  2285  LA  ST MARY       ATCHAFALAYA           VEN-TECH REFINERY               O/G   REFN  PROP     0  BOB MISSO, FWS
  2290  LA  ST MARY       FRANKLIN              LA GASOHOL CORP (2)             SYN   BIOM  PROP     0  ANONYMOUS  1980 O
  2295  LA  ST MARY       VARIOUS               10 PIPELINE LANDFALLS           TRAN  PIPE  EXIST    0  BLM   1978 B
  2300  LA  ST MARY       VARIOUS               10 GAS PROCESSING PLANTS        O/G   GAS   EXIST    0  BLM   1978 B
  2305  LA  ST MARY       OFFSHORE              EUGENE IS/GEO PROSPECT AREA     OTHR  GEO   PROP     0  WALLACE    1980
  2310  LA  TERREBONNE    HOUMA                 SERVICE BASE                    O/G   BASE  EXIST    0  BLM   1980 C
  2315  LA  TERREBONNE    VARIOUS               8 OCS SERVICE IND               O/G   BASE  EXIST    0  BLM   1978 B
  2320  LA  TERREBONNE    HOUMA                 HOUMA                           PWR   FOSL  EXIST    0  US DOE     1979 B
  2325  LA  TERREBONNE    CHACAHOULA            SPR OIL STORAGE                 O/G   SPR   PROP     0  FRENCH     1979
  2330  LA  TERREBONNE    ATCHAFALAYA BAY       GEOPRESSURED PROSPECT AREA      OTHR  GEO   PROP     0  BLM   1979 A
  2335  LA  TERREBONNE    VARIOUS               17 PIPELINE LANDFALLS           TRAN  PIPE  EXIST    0  BLM   1978 B
  2340  LA  TERREBONNE    CAILLOU               OIL TERMINAL                    TRAN  OIL   PROP     0  BLM   1979 B
  2345  LA  TERREBONNE    VARIOUS               11 GAS PROCESSING PLANTS        O/G   GAS   EXIST    0  BLM   1978 B
  2350  LA  TERREBONNE    VARIOUS               4 OCS SUPPORT IND               O/G   OCSR  EXIST    0  BLM   1978 B
  2355  LA  TERREBONNE    DULAC                 SERVICE BASE                    O/G   BASE  EXIST    0  BLM   1980 C
  2360  LA  TERREBONNE    OFFSHORE              SO TIMBALIER/GEO PROSPECT AREA  OTHR  GEO   PROP     0  WALLACE    1980
  2365  LA  LAFOURCHE     LEEVILLE              SERVICE BASE                    O/G   BASE  EXIST    0  BLM   1980 C
  2370  LA  LAFOURCHE     THIBODAUX             BAY DRILLING CO                 O/G   OCSR  EXIST    0  BLM   1978 B
  2375  LA  LAFOURCHE     GOLDEN MEADOW         SERVICE BASE                    O/G   BASE  EXIST    0  BLM   1980 C
  2380  LA  LAFOURCHE     VARIOUS               OCS SERVICE IND                 O/G   BASE  EXIST    0  BLM   1978 B
  2385  LA  LAFOURCHE     THIBODAUX             THIBODAUX                       PWR   FOSL  EXIST    0  US DOE     1979 B
  2390  LA  LAFOURCHE     THIBODAUX             SYNFUELS/ETHANOL FROM CROPS     SYN   BIOM  PROP     0  ANONYMOUS  1980 V
  2395  LA  LAFOURCHE     OFFSHORE              LOOP                            TRAN  DPRT  EXIST    0  FRENCH     1979
  2400  LA  LAFOURCHE     ONSHORE               LOOP OIL STORAGE                TRAN  OIL   EXIST    0  FRENCH     1979
  2405  LA  LAFOURCHE     THIBODAUX             GEOPRESSURED PROSPECT AREA      OTHR  GEO   PROP     0  BLM   1979 A
  2410  LA  LAFOURCHE                           LIQUID PRODUCTS GAS PLANT       O/G   GAS   EXIST    0  BLM   1978 B
  2415  LA  ST JAMES      CONVENT               TEXACO                          O/G   REFN  EXIST    0  FRENCH     1979
  2420  LA  ST JAMES      CONVENT               TEXACO/METHANOL FROM COAL       SYN   COAL  PROP     0  ANONYMOUS  1980 V
  2425  LA  ST JAMES      ST JAMES              LA. JET INC                     O/G   REFN  EXPAN   82  US DOE     1979 E
  2430  LA  ST JAMES      ST JAMES              SPR TERMINAL                    O/G   SPR   EXIST    0  NOAA  1980 A
  2435  LA  ST JAMES      VACHERIE              TWIN OAK REFINING               O/G   REFN  PROP     0  US DOE     1979 E
  2440  LA  ST JAMES      GOOD HOPE             GOOD HOPE REFINING              O/G   REFN  EXIST    0  BLM   1978 B
  2445  LA  ST JAMES      VARIOUS               2 GAS PROCESSING PLANTS         O/G   GAS   EXIST    0  BLM   1978 B
  2450  LA  ST JOHN BAPT  FINDLY                RESERVE REFINI                  O/G   REFN  EXIST    0  NOAA  1980
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
   NO  LO  CO              CITY              FAC                               TYPE  CODE  ST     YR  REF
 2455  LA  ST JOHN BAPT    GARYVILLE         MARATHON REFINERY                 0/G   REFN  EXIST   0  FRENCH      1979
 2460  LA  ST CHARLES      NORCO             SHELL                             0/G   REFN  EXIST   0  FRENCH      1979
 2465  LA  ST CHARLES                        LITTLE GYPSY                      PWR   FOSL  EXIST   0  US DOE      1979 B
 2470  LA  ST CHARLES      TAFT              WATERFORD                         PWR   FOSL  EXIST   0  US DOE      1979 B
 2475  LA  ST CHARLES      TAFT              WATERFORD                         PWR   NUKE  PROP   81  US DOE      1979 B
 2480  LA  ST CHARLES      VARIOUS           3 GAS PROCESSING PLANTS           0/G   GAS   EXIST   0  BLM   1978 B
 2485  LA  JEFFERSON       GRAND ISLE        SERVICE BASE                      0/G   BASE  EXIST   0  BLM   1980 C
 2490  LA  JEFFERSON       VARIOUS           23 OCS SERVICE IND                0/G   BASE  EXIST   0  BLM   1978 B
 2495  LA  JEFFERSON       VARIOUS           6 PIPELINE LANDFALLS              TRAN  PIPE  EXIST   0  BLM   1978 B
 2500  LA  JEFFERSON       VARIOUS           12 OCS SUPPORT IND                0/G   OCSR  EXIST   0  BLM   1978 B
 2505  LA  JEFFERSON       WESTWEGO          REFINERY SERVICES                 0/G   REFN  PROP    0  US DOE      1979 E
 2510  LA  JEFFERSON                         NINE MILE POINT                   PWR   FOSL  EXIST   0  US DOE      1979 B
 2515  LA  JEFFERSON       HARVEY            SERVICE BASE                      0/G   BASE  EXIST   0  BLM   1980 C
 2520  LA  JEFFERSON       HARVEY            TIBER REFINING                    0/G   REFN  PROP   81  US DOE      1979 E
 2525  LA  PLAQUEMINES                       BURAS                             PWR   FOSL  EXIST   0  US DOE      1979 B
 2526  LA  PLAQUEMINES                       ETHANOL FROM CORN                 SYN   BIOM  POST    0  ANONYMOUS, 1980 S
 2530  LA  PLAQUEMINES     BELLE CHASE       GULF OIL                          0/G   REFN  EXIST   0  FRENCH      1979
 2535  LA  PLAQUEMINES     VENICE            GULF OIL                          0/G   REFN  EXIST   0  FRENCH      1979
 2540  LA  PLAQUEMINES     VARIOUS           45 PIPELINE LANDFALLS             TRAN  PIPE  EXIST   0  BLM   1978 B
 2545  LA  PLAQUEMINES     VARIOUS           4 GAS PROCESSING PLANTS           0/G   GAS   EXIST   0  BLM   1978 B
 2550  LA  PLAQUEMINES     VARIOUS           2 OCS SERVICE IND                 0/G   BASE  EXIST   0  BLM   1978 B
 2555  LA  PLAQUEMINES     VENICE            SERVICE BASE                      0/G   BASE  EXIST   0  BLM   1980 C
 2560  LA  PLAQUEMINES     DAVANT            ELECTRO-COAL TERMINAL             TRAN  COAL  EXPAN   0  ANONYMOUS  1980 X
 2565  LA  PLAQUEMINES     VARIOUS           2 OCS SUPPORT IND                 0/G   OCSR  EXIST   0  BLM   1978 B
 2570  LA  ST BERNARD      CHALMETTE         TENNECO                           0/G   REFN  EXPAN   0  FRENCH      1979
 2575  LA  ST BERNARD      MERAUX            MURPHY                            0/G   REFN  EXIST   0  BLM   1978 B
 2580  LA  ST BERNARD      VARIOUS           2 PIPELINE LANDFALLS              TRAN  PIPE  EXIST   0  BLM   1978 B
 2585  LA  ST BERNARD      VARIOUS           4 GAS PROCESSING PLANTS           0/G   GAS   EXIST   0  BLM   1978 B
 2590  LA  ORLEANS         NEW ORLEANS       N.O. BULK TERMINAL/COAL EXPORT    TRAN  COAL  EXPAN   0  ANONYMOUS  1980 X
 2595  LA  ORLEANS         NEW ORLEANS       PORT/MAX 50,000DWT                TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 2596  LA  ORLEANS         N O/BATON ROUGE   DREDGING PROJECT                  TRAN  DRDG  PROP   88  ANONYMOUS, 1980 B
 2598  LA  ORLEANS         NEW ORLEANS       ETHANOL FROM CORN                 SYN   BIOM  POST    0  ANONYMOUS, 1980 S
 2600  LA  ORLEANS                           PATTERSON                         PWR   FOSL  EXIST   0  US DOE      1979 B
 2605  LA  ORLEANS                           MARKET STREET                     PWR   FOSL  EXIST   0  US DOE      1979 B
 2610  LA  ORLEANS                           MICHOUD                           PWR   FOSL  EXIST   0  US DOE      1979 B
 2615  LA  ORLEANS         (N O SEWAGE)      POWER HOUSE 2                     PWR   FOSL  EXIST   0  US DOE      1979 B
 2620  LA  ORLEANS         (N O SEWAGE)      STATION C                         PWR   FOSL  EXIST   0  US DOE      1979 B
 2625  LA  ORLEANS         VARIOUS           41 OCS SERVICE IND                0/G   BASE  EXIST   0  BLM   1978 B
 2630  LA  ORLEANS         VARIOUS           12 OCS SUPPORT IND                0/G   OCSR  EXIST   0  BLM   1978 B
 2635  LA  PLAQUEMINES     DELTA AREA        POTENTIAL COAL EXPORT TERMINAL    TRAN  COAL  POST       SOROS ASSOC       1980
 2640  LA  DELTA AREA                        U S ETHANOL/ETHANOL PLANT         SYN   BIOM  PROP    0  ANONYMOUS  1980 O
 2645  LA  DELTA AREA      OFFSHORE          ALCOHOL FROM WASTE                SYN   BIOM  PROP    0  ANONYMOUS  1980 H
 2650  LA  COASTAL ZONE                      12,535 OIL WELLS                  0/G   WELL  EXIST   0  FRENCH      1979
 2655  LA  OCS             CENTRAL GULF      OCS PRODUCTION/EXPLORATION        0/G   PLAT  EXIST   0  BLM   1979 B
 2660  TX  CAMERON                           BROWNSVILLE                       PWR   FOSL  EXIST   0  US DOE      1979 B
 2665  TX  CAMERON                           LA PALMA                          PWR   FOSL  EXIST   0  US DOE      1979 B
 2670  TX  CAMERON         BROWNSVILLE       DEEP WATER PORT                   TRAN  DPRT  EXIST   0  FRENCH      1979
 2675  TX  CAMERON         PORT ISABEL       DEEP WATER PORT                   TRAN  DPRT  EXIST   0  FRENCH      1979
 2680  TX  CAMERON         PORT ISABEL       OCS SERVICE IND                   0/G   BASE  EXIST   0  NOAA  1980 A
 2685  TX  CAMERON         VARIOUS           3 REFINERIES                      0/G   REFN  EXPAN   0  US DOE      1979 E
 2690  TX  CAMERON         BROWNSVILLE       PETRACO VALLEY REFINING           0/G   REFN  PROP   80  US DOE      1979 E
 2695  TX  CAMERON         BROWNSVILLE       BARBOUR ENERGY CO                 0/G   REFN  PROP   82  US DOE      1979 E
 2700  TX  CAMERON         BROWNSVILLE       MARATHON/OCS SUPPORT              0/G   OCSR  EXIST   0  BLM   1978 B
 2705  TX  CAMERON         WESTERN COUNTY    GEOTHERMAL FAIRWAY                OTHR  GEO   PROP    0  WALLACE     1980
 2710  TX  WILLACY         PORT MANSFIELD    SERVICE BASE                      0/G   BASE  EXIST   0  BLM   1978 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
    NO  LO  CO              CITY                  FAC                              TYPE  CODE  ST      YR  REF
  2715  TX  WILLACY                               PIPELINE LANDFALL                TRAN  PIPE  EXIST    0  BLM   1978 B
  2720  TX  WILLACY         RAYMONDVILLE          MITCHELL GAS PROCESSING          O/G   GAS   EXIST    0  BLM   1978 B
  2725  TX  KLEBERG                               PIPELINE LANDFALL                TRAN  PIPE  PROP     0  BLM   1980 C
  2730  TX  KLEBERG                               PIPELINE LANDFALL                TRAN  PIPE  EXIST    0  BLM   1978 B
  2735  TX  KLEBERG         VARIOUS               2 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2740  TX  NUECES                                LON C HILL                       PWR   FOSL  EXIST    0  US DOE     1979 B
  2745  TX  NUECES                                NUECES BAY                       PWR   FOSL  EXIST    0  US DOE     1979 B
  2750  TX  NUECES                                BARNEY DAVIS                     PWR   FOSL  EXIST    0  US DOE     1979 B
  2755  TX  NUECES                                ROBSTOWN                         PWR   FOSL  EXIST    0  US DOE     1979 B
  2760  TX  NUECES          PORT ARANSAS          2 OCS SERVICE INDUSTRIES         O/G   BASE  EXIST    0  BLM   1978 B
  2765  TX  NUECES          CORPUS CHRISTI        4 OCS SUPPORT INDUSTRIES         O/G   OCSR  EXIST    0  BLM   1978 B
  2770  TX  NUECES          CORPUS CHRISTI        2 OCS SERVICE INDUSTRIES         O/G   BASE  EXIST    0  BLM   1978 B
  2775  TX  NUECES          CORPUS CHRISTI        7 REFINERIES                     O/G   REFN  EXIST    0  BLM   1978 B
  2780  TX  NUECES          CORPUS CHRISTI        3 REFINERIES                     O/G   REFN  EXPAN    0  US DOE     1979 E
  2785  TX  NUECES          CORPUS CHRISTI        DEEP WATER PORT                  TRAN  DPRT  EXIST    0  FRENCH     1979
  2790  TX  NUECES          CORPUS CHRISTI        PORT/MAX 55,000 DWT              TRAN  PORT  EXIST    0  INTL PETROLEUM DIR   1979
  2795  TX  NUECES          CORPUS CHRISTI        HARBOR ISLAND DEEPWATER PORT     TRAN  DPRT  PROP     0  NOAA  1980 A
  2800  TX  NUECES          BISHOP                SYNFUELS/SYNGAS FROM COAL        SYN   COAL  PROP     0  ANONYMOUS  1980 V
  2805  TX  NUECES          VARIOUS               4 PIPELINE LANDFALLS             TRAN  PIPE  EXIST    0  BLM   1978 B
  2810  TX  NUECES          OFFSHORE              92 MILE GAS PIPELINE             TRAN  GAS   PROP     0  FERC  1980 A
  2815  TX  NUECES          VARIOUS               6 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2820  TX  SAN PATRICIO    INGLESIDE             SERVICE BASE                     O/G   BASE  EXIST    0  BLM   1980 C
  2825  TX  SAN PATRICIO    INGLESIDE             2 REFINERIES                     O/G   REFN  EXIST    0  FRENCH     1979
  2830  TX  SAN PATRICIO    INGLESIDE             4 REFINERIES                     O/G   REFN  EXPAN    0  US DOE     1979 E
  2835  TX  SAN PATRICIO    BRAZOSPORT            NG PIPELINE CO                   TRAN  PIPE  EXIST    0  NOAA  1980 A
  2840  TX  SAN PATRICIO    ARANSAS PASS          GEOTHERMAL FAIRWAY               OTHR  GEO   PROP     0  BLM   1979 A
  2845  TX  SAN PATRICIO    VARIOUS               7 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2850  TX  REFUGIO         VARIOUS               4 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2855  TX  ARANSAS         FULTON                TENNECO GAS PROCESSING PLANT     O/G   GAS   EXIST    0  BLM   1978 B
  2860  TX  ARANSAS         ROCKPORT              SERVICE BASE                     O/G   BASE  EXIST    0  BLM   1980 C
  2865  TX  CALHOUN                               JOSLIN                           PWR   FOSL  EXIST    0  US DOE     1979 B
  2870  TX  CALHOUN                               PIPELINE LANDFALL                TRAN  PIPE  EXIST    0  BLM   1978 B
  2875  TX  CALHOUN         POINT COMFORT         DEEP WATER PORT                  TRAN  DPRT  EXIST    0  FRENCH     1979
  2880  TX  CALHOUN         POWDERHORN RANCH      ALGERIA II                       O/G   LNG   PROP     0  NOAA  1980 A
  2885  TX  CALHOUN         VARIOUS               2 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2890  TX  CALHOUN         PORT OCONNOR          SERVICE BASE                     O/G   BASE  EXIST    0  BLM   1980 C
  2895  TX  CALHOUN         OFFSHORE              MUSTANG IS GEOTHERMAL FAIRWAY    OTHR  GEO   PROP     0  WALLACE    1980
  2900  TX  VICTORIA        BLOOMINGTON           GULF OIL                         O/G   REFN  EXIST    0  NOAA  1980 A
  2905  TX  VICTORIA        COLETO CREEK          COLETO CREEK                     PWR   COAL  PROP     0  FRENCH     1979
  2910  TX  VICTORIA                              VICTORIA                         PWR   FOSL  EXIST    0  US DOE     1979 B
  2915  TX  VICTORIA                              SAM RAYBURN                      PWR   FOSL  EXIST    0  US DOE     1979 B
  2920  TX  VICTORIA        VARIOUS               2 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2925  TX  MATAGORDA       BAY CITY              SOUTH TEXAS                      PWR   NUKE  PROP    84  US DOE     1979 B
  2930  TX  MATAGORDA       VARIOUS               5 GAS PROCESSING PLANTS          O/G   GAS   EXIST    0  BLM   1978 B
  2935  TX  MATAGORDA       VARIOUS               4 PIPELINE LANDFALLS             TRAN  PIPE  EXIST    0  BLM   1978 B
  2940  TX  MATAGORDA       MATAGORDA             GEOTHERMAL FAIRWAY               OTHR  GEO   PROP     0  BLM   1979 A
  2945  TX  BRAZORIA        FREEPORT              SERVICE BASE                     O/G   BASE  EXIST    0  BLM   1980 C
  2950  TX  BRAZORIA        FREEPORT              PORT/MAX 40,000 DWT              TRAN  PORT  EXIST    0  INTL PETROLEUM DIR   1979
  2955  TX  BRAZORIA        FREEPORT              DRILLING,PIPELAYING/OCS SUPP     O/G   OCSR  EXIST    0  BLM   1978 B
  2960  TX  BRAZORIA        ALVIN                 MONSANTO                         O/G   REFN  EXIST    0  FRENCH     1979
  2965  TX  BRAZORIA        SWEENEY               PHILLIPS                         O/G   REFN  EXPAN   80  US DOE     1979 E
  2970  TX  BRAZORIA        FREEPORT              OYSTER CREEK                     O/G   REFN  PROP     0  NOAA  1980 A
  2975  TX  BRAZORIA        FREEPORT              DOW CHEMICAL                     O/G   REFN  PROP    80  US DOE     1979 E
  2980  TX  BRAZORIA        FREEPORT, 11 MI OUT   PHILLIPS AND OTHERS              TRAN  DPRT  PROP     0  ANONYMOUS  1980 R
  2985  TX  BRAZORIA        SWEENEY               NG PROCESSING                    O/G   GAS   PROP     0  NOAA  1980
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO  LO  CO            CITY            FAC                           TYPE  CODE  ST     YR  REF
2990  TX  BRAZORIA      BRYAN MOUND     SPR STORAGE SITE              O/G   SPR   EXPAN   0  FRENCH      1979
2995  TX  BRAZORIA      LIVERPOOL       GEOTHERMAL FAIRWAY            OTHR  GEO   PROP    0  BLM   1979 A
3000  TX  BRAZORIA      VARIOUS         6 PIPELINE LANDFALLS          TRAN  PIPE  EXIST   0  BLM   1978 B
3005  TX  BRAZORIA      VARIOUS         5 GAS PROCESSING PLANTS       O/G   GAS   EXIST   0  BLM   1978 B
3010  TX  BRAZORIA      LAKE JACKSON    OCS SUPPORT IND               O/G   OCSR  EXIST   0  BLM   1978 B
3015  TX  BRAZORIA      PEERLAND        OCS SERVICE IND               O/G   BASE  EXIST   0  BLM   1978 B
3020  TX  BRAZORIA      OFFSHORE        BRAZOS GEOTHERMAL FAIRWAY     OTHR  GEO   PROP    0  WALLACE     1980
3025  TX  GALVESTON     TEXAS CITY      2 REFINERIES                  O/G   REFN  EXIST   0  BLM   1978 B
3030  TX  GALVESTON     TEXAS CITY      TEXAS CITY REFINING           O/G   REFN  EXPAN   0  FRENCH      1979
3035  TX  GALVESTON     TEXAS CITY      PORT/MAX 50.000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3040  TX  GALVESTON     TEXAS CITY      DEEPWATER PORT                TRAN  DPRT  EXIST   0  FRENCH      1979
3045  TX  GALVESTON     GALVESTON       DEEPWATER PORT                TRAN  DPRT  EXIST   0  FRENCH      1979
3050  TX  GALVESTON     GALVESTON       PELICAN IS DEEPWATER PORT     TRAN  DPRT  PROP    0  ANONYMOUS  1980 R
3055  TX  GALVESTON     TEXAS CITY      SYNFUELS/LOW-MED BTU GAS      SYN   COAL  PROP    0  ANONYMOUS  1980 V
3060  TX  GALVESTON     GULF COAST      SYNFUELS/MED BTU GAS          SYN   COAL  PROP    0  ANONYMOUS  1980 V
3065  TX  GALVESTON     TEXAS CITY      ROBINSON                      PWR   FOSL  EXIST   0  US DOE       1979 B
3070  TX  GALVESTON     GALVESTON       PORT/MAX 35,000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3075  TX  GALVESTON     GALVESTON       5 OCS SERVICE INDUSTRIES      O/G   BASE  EXIST   0  BLM   1978 B
3080  TX  GALVESTON     GALVESTON       4 OCS SUPPORT INDUSTRIES      O/G   OCSR  EXIST   0  BLM   1978 B
3085  TX  GALVESTON     VARIOUS         3 PIPELINE LANDFALLS          TRAN  PIPE  EXIST   0  BLM   1978 B
3090  TX  GALVESTON     GALVESTON       MITCHELL GAS PROCESSING PLANT O/G   GAS   EXIST   0  BLM   1978 B
3095  TX  HARRIS        VARIOUS         7 POWER PLANTS                PWR   FOSL  EXIST   0  US DOE       1979 B
3100  TX  HARRIS        HOUSTON         4 REFINERIES                  O/G   REFN  EXIST   0  BLM   1978 B
3105  TX  HARRIS        HOUSTON         2 REFINERIES                  O/G   REFN  EXPAN   0  US DOE       1979 E
3110  TX  HARRIS        HOUSTON         NOVEX REFINING                O/G   REFN  PROP   80  US DOE       1979 E
3115  TX  HARRIS        HOUSTON         PETROMAX                      O/G   REFN  PROP   80  US DOE       1979 E
3120  TX  HARRIS        HOUSTON         INTERCOASTAL REFINING         O/G   REFN  PROP   83  US DOE       1979 E
3125  TX  HARRIS        HOUSTON         DEEPWATER PORT                TRAN  DPRT  EXIST   0  FRENCH      1979
3130  TX  HARRIS        HOUSTON         PORT/MAX 50.000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3135  TX  HARRIS        VARIOUS         6 GAS PROCESSING PLANTS       O/G   GAS   EXIST   0  BLM   1978 B
3140  TX  HARRIS        HOUSTON         63 OCS SUPPORT INDUSTRIES     O/G   OCSR  EXIST   0  BLM   1978 B
3145  TX  HARRIS        HOUSTON         85 OCS SERVICE INDUSTRIES     O/G   BASE  EXIST   0  BLM   1978 B
3150  TX  HARRIS        CHANNELVIEW     2 OCS SERVICE INDUSTRIES      O/G   BASE  EXIST   0  BLM   1978 B
3154  TX  HARRIS        LAPORTE         INDIRECT COAL LIQUIFACTION    SYN   COAL  PROP    0  ANONYMOUS, 1980 K
3155  TX  HARRIS        BAYTOWN         EXXON/SYNFUELS                SYN   COAL  PROP    0  EMMETT TURNER, DOE
3160  TX  HARRIS        BAYTOWN         PORT/MAX 50,000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3165  TX  HARRIS        UNSITED         POWER PLANT                   PWR   COAL  PROP   85  US DOE     1979 B
3170  TX  HARRIS        NORTHERNCOUNTY  GEOTHERMAL FAIRWAY            OTHR  GEO   PROP    0  WALLACE    1980
3175  TX  CHAMBERS                      CEDAR BAYOU                   PWR   FOSL  EXIST   0  US DOE     1979 B
3180  TX  CHAMBERS                      3 GAS PROCESSING PLANTS       O/G   GAS   EXIST   0  BLM   1978 B
3185  TX  JEFFERSON     PORT ARTHUR     4 REFINERIES                  O/G   REFN  EXIST   0  BLM   1978 B
3190  TX  JEFFERSON     PORT ARTHUR     2 REFINERIES                  O/G   REFN  EXPAN   0  US DOE       1979 E
3195  TX  JEFFERSON     PORT ARTHUR     3 DEEPWATER PORTS             TRAN  DPRT  EXIST   0  FRENCH      1979
3200  TX  JEFFERSON     PORT ARTHUR     PORT/MAX 40,000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3201  TX  JEFFERSON     PORT ARTHUR     COAL EXPORT FACILITIES        TRAN  COAL  EXIST   0  SOROS ASSOC       1980
3205  TX  JEFFERSON     PORT ARTHUR     LNG PLANT                     O/G   LNG   POST    0  NOAA  1980 A
3210  TX  JEFFERSON     PORT ARTHUR     OCS SERVICE INDUSTRIES        O/G   BASE  EXIST   0  BLM   1978 B
3215  TX  JEFFERSON     BEAUMONT        PORT/MAX 30.000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3220  TX  JEFFERSON     PORT NECHES     NECHES                        PWR   FOSL  EXIST   0  US DOE     1979 B
3225  TX  JEFFERSON     GROVES          OCS SERVICE IND               O/G   BASE  EXIST   0  BLM   1978 B
3230  TX  JEFFERSON     VARIOUS         4 GAS PROCESSING PLANTS       O/G   GAS   EXIST   0  BLM   1978 B
3235  TX  JEFFERSON     NEDERLAND       OCS SUPPORT IND               O/G   OCSR  EXIST   0  BLM   1978 B
3240  TX  JEFFERSON     NEDERLAND       PORT/MAX 30,000 DWT           TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
3245  TX  JEFFERSON     SABINE PASS     SERVICE BASE                  O/G   BASE  EXIST   0  BLM   1980 C
3250  TX  JEFFERSON     VARIOUS         8 PIPELINE LANDFALLS          TRAN  PIPE  EXIST   0  BLM   1978 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
    NO  LO   CO                CITY                   FAC                              TYPE  CODE  ST     YR  REF
  3255  TX   OCS               WESTERN GULF           OCS PRODUCTION                   O/G   PLAT  EXIST   0  BLM   1980 D
  3260  TX   OCS               WESTERN GULF           OCS LEASE SALE 62                O/G   EXPL  PROP   80  BLM   1979 B
  3265  TX   OCS               HIGH ISLAND AREA       GAS PIPELINE                     TRAN  GAS   PROP    0  FERC  1980 A
  3270  TX   GULF COAST        ONSHORE COASTAL ZONE   14,108 WELLS                     O/G   WELL  EXIST   0  FRENCH      1979
  3300  CA   DEL NORTE                                MARYSVILLE                       PWR   HYD   PROP   80  US DOE      1979 B
  3305  CA   HUMBOLDT          EUREKA                 HUMBOLDT BAY                     PWR   FOSL  EXIST   0  US DOE      1979 B
  3310  CA   HUMBOLDT          EUREKA                 HUMBOLDT BAY                     PWR   NUKE  EXIST   0  US DOE      1979 B
  3315  CA   SONOMA                                   GEYSERS                          PWR   GEO   EXPAN  82  US DOE      1979 B
  3320  CA   SOLANO            VALLEJO                KAISER STEEL PLATFORM FAB        O/G   OCSR  EXIST   0  NOAA  1980 A
  3325  CA   SOLANO            VALLEJO                PETER KIEWITT/OCS SUPP           O/G   OCSR  EXIST   0  NOAA  1980 A
  3330  CA   SOLANO            WINTERS                MONTICELLO                       PWR   HYD   PROP    0  NOAA  1980 A
  3335  CA   SOLANO            COLLINSVILLE           MONTEZUMA                        PWR   COAL  PROP    0  NOAA  1980 A
  3340  CA   CONTRA COSTA                             AVON STEAM                       PWR   FOSL  EXIST   0  US DOE      1979 B
  3345  CA   CONTRA COSTA      ANTIOCH                CONTRA COSTA                     PWR   FOSL  EXIST   0  US DOE      1979 B
  3350  CA   CONTRA COSTA      PITTSBURG              PITTSBURG                        PWR   FOSL  EXIST   0  US DOE      1979 B
  3355  CA   CONTRA COSTA      RODEO                  OLEUM                            PWR   FOSL  EXIST   0  CA ENERGY COMM  1980
  3360  CA   CONTRA COSTA      BENICIA                SYNFUELS/ETHANOL FROM CORN       SYN   BIOM  POST    0  ANONYMOUS  1980 V
  3365  CA   CONTRA COSTA      MARTINEZ               SHELL OIL                        O/G   REFN  EXIST   0  NOAA  1980 A
  3370  CA   CONTRA COSTA      MARTINEZ               URICH REFINERY                   O/G   REFN  EXIST   0  NOAA  1980 A
  3375  CA   CONTRA COSTA      MARTINEZ               UCO REFINERY                     O/G   REFN  PROP   81  US DOE      1979 E
  3380  CA   CONTRA COSTA      MARTINEZ               MARTINEZ                         PWR   FOSL  EXIST   0  US DOE      1979 B
  3385  CA   CONTRA COSTA      RICHMOND               PORT/MAX 35,000 DWT              TRAN  PORT  EXIST   0  INTL PETROLEUM DIR   1979
  3390  CA   CONTRA COSTA      RICHMOND               CHEVRON REFINERY                 O/G   REFN  EXIST   0  JONES/STOKES ASSOC IN PREP
  3395  CA   CONTRA COSTA      HERCULES               PACIFIC REFINERY                 O/G   REFN  EXIST   0  JONES/STOKES ASSOC IN PREP
  3400  CA   CONTRA COSTA      RODEO                  UNION-OLEUM                      O/G   REFN  EXIST   0  JONES/STOKES ASSOC IN PREP
  3405  CA   ALAMEDA           OAKLAND                PORT/MAX                         TRAN  PORT  EXIST   0  CA COASTAL COMM 1975
  3410  CA   ALAMEDA           OAKLAND                OAKLAND                          PWR   FOSL  EXIST   0  US DOE      1979 B
  3415  CA   ALAMEDA           OAKLAND                SYNFUELS/METHANE FROM WASTE      SYN   BIOM  POST    0  ANONYMOUS  1980 V
  3420  CA   SAN FRANCISCO     SAN FRANCISCO          HUNTERS POINT                    PWR   FOSL  EXIST   0  US DOE      1979 B
  3425  CA   SAN FRANCISCO     SAN FRANCISCO          POTRERO                          PWR   FOSL  EXIST   0  US DOE      1979 B
  3430  CA   SAN FRANCISCO     PIER 94/PORT OF SF     POTENTIAL COAL EXPORT TERMINAL   TRAN  COAL  POST    0  SOROS ASSOC      1980
  3435  CA   SAN FRANCISCO     SAN FRANCISCO          PORT/MAX 55,000 DWT              TRAN  PORT  EXIST   0  INTL PETROLEUM DIR   1979
  3440  CA   SAN FRANCISCO     SN FRANCISCO BAY       POTENTIAL DEEPWATER PORT         TRAN  DPRT  POST    0  JONES/STOKES ASSOC IN PREP
  3441  CA   SANTA CLARA                              GAS FROM LANDFILL                SYN   BIOM  POST    0  ANONYMOUS, 1980 S
  3442  CA   SANTA CLARA       SUNNYVALE              METHANE FROM WATER TREAT         SYN   BIOM  PROP    0  ANONYMOUS, 1980 S
  3445  CA   MONTEREY          MOSS LANDING           MOSS LANDING                     PWR   FOSL  EXIST   0  US DOE      1979 B
  3450  CA   MONTEREY          MOSS LANDING           NEW MARINE TERMINAL              TRAN  MTER  PROP    0  NOAA  1980 A
  3455  CA   MONTEREY          SAN ARDO               COAL GASIFICATION/COGENERATION   SYN   COAL  PROP    0  ANONYMOUS  1980 U
  3460  CA   SN LUIS OBISPO                           SAN LUIS OBISPO                  PWR   HYD   PROP   82  US DOE      1979 B
  3465  CA   SN LUIS OBISPO                           DIABLO CANYON                    PWR   NUKE  PROP   80  US DOE      1979 B
  3470  CA   SN LUIS OBISPO    MORRO BAY              MORRO BAY                        PWR   FOSL  EXIST   0  US DOE      1979 B
  3475  CA   SN LUIS OBISPO    PORT SAN LUIS          MARINE TERMINAL/OIL              TRAN  MTER  EXIST   0  JONES/STOKES ASSOC IN PREP
  3480  CA   SN LUIS OBISPO    ESTERO BAY             PORT/MAX 110,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR   1979
  3485  CA   SN LUIS OBISPO    ESTERO BAY             CHEVRON                          TRAN  MTER  EXIST   0  JONES/STOKES ASSOC IN PREP
  3490  CA   SN LUIS OBISPO    ESTERO BAY             PG/E                             TRAN  MTER  EXIST   0  JONES/STOKES ASSOC IN PREP
  3495  CA   SN LUIS OBISPO    ESTERO BAY             TEXACO                           TRAN  MTER  EXIST   0  JONES/STOKES ASSOC IN PREP
  3500  CA   SN LUIS OBISPO    ESTERO BAY             US NAVY                          TRAN  MTER  EXIST   0  JONES/STOKES ASSOC IN PREP
  3505  CA   SN LUIS OBISPO    SANTA MARIA RIVER      UNION OIL                        O/G   REFN  EXIST   0  JONES/STOKES ASSOC IN PREP
  3510  CA   SANTA BARBARA     SANTA BARBARA CHANNL   OCS PRODUCTION                   O/G   PLAT  EXIST   0  USGS  1980 B
  3515  CA   SANTA BARBARA     OCS                    OCS LEASE SALE 53                O/G   EXPL  PROP   81  USGS  1980 B
  3520  CA   SANTA BARBARA     SANTA BARBARA CHANNL   OCS LEASE SALE 68                O/G   EXPL  PROP   83  USGS  1980 B
  3525  CA   SANTA BARBARA     VARIOUS                14 PIPELINE LANDFALLS            TRAN  PIPE  EXIST   0  CA OFC PLANNING/RES  1977
  3530  CA   SANTA BARBARA     VARIOUS                4 PIPELINE LANDFALLS             TRAN  PIPE  PROP    0  USGS  1980 B
  3535  CA   SANTA BARBARA     VARIOUS                5 MARINE TERMINALS               TRAN  MTER  EXIST   0  USGS  1980 B
  3540  CA   SANTA BARBARA     VARIOUS                3 MARINE TERMINALS               TRAN  MTER  PROP    0  CA OFC PLANNING/RES  1977
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
    NO  LO  CO             CITY                 FAC                            TYPE  CODE  ST    YR  REF
  3545  CA  SANTA BARBARA  VARIOUS              11 GAS TREATMENT PLANTS        O/G   GAS   EXIST  0  USGS  1980 B
  3550  CA  SANTA BARBARA  LAS FLORES CYN       TREATMENT FACILITY             O/G   GAS   PROP   0  USGS  1980 B
  3555  CA  SANTA BARBARA  SANTA MARIA          DOUGLAS REFINERY               O/G   REFN  EXIST  0  USGS  1980 B
  3560  CA  SANTA BARBARA  GUADALUPE DUNES      OIL/GAS PRODUCTION             O/G   WELL  EXIST  0  JONES/STOKES ASSOC IN PREP
  3565  CA  SANTA BARBARA  ELWOOD               ELWOOD                         PWR   FOSL  EXIST  0  US DOE      1979 B
  3570  CA  SANTA BARBARA  GAVIOTA              OIL/GAS PRODUCTION             O/G   WELL  EXIST  0  NOAA  1980 A
  3575  CA  SANTA BARBARA  POINT CONCEPTION     LNG PLANT                      O/G   LNG   PROP   0  NOAA  1980 A
  3580  CA  SANTA BARBARA  SANTA MARIA          QUAD REFINERY                  O/G   REFN  EXPAN 82  US DOE      1979 E
  3585  CA  VENTURA        VENTURA              MANDALAY                       PWR   FOSL  EXIST  0  US DOE      1979 B
  3590  CA  VENTURA        VENTURA              ORMOND BEACH                   PWR   FOSL  EXIST  0  US DOE      197  B
  3595  CA  VENTURA        SANTA BARBARA CHANNL OIL/GAS PRODUCTION             O/G   PLAT  EXIST  0  USGS  1980 B
  3600  CA  VENTURA        SANTA BARBARA CHANNL OCS LEASE SALE 68              O/G   EXPL  PROP  83  USGS  1980 B
  3605  CA  VENTURA        VARIOUS              3 PIPELINE LANDFALLS           TRAN  PIPE  EXIST  0  CA OFC PLANNING/RES  1977
  3610  CA  VENTURA        VARIOUS              4 PIPELINE LANDFALLS           TRAN  PIPE  PROP   0  USGS  1980 B
  3615  CA  VENTURA        VARIOUS              3 MARINE TERMINALS             TRAN  MTER  EXIST  0  USGS  1980 B
  3620  CA  VENTURA        VARIOUS              2 MARINE TERMINALS             TRAN  MTER  PROP   0  CA OFC PLANNING/RES  1977
  3625  CA  VENTURA        VARIOUS              11 TREATMENT PLANTS            O/G   GAS   EXIST  0  USGS  1980 B
  3630  CA  VENTURA        MANDALAY BEACH       2 TREATMENT PLANTS             O/G   GAS   PROP  81  USGS  1980 B
  3635  CA  VENTURA        OXNARD               BOEING COAL SLURRY PIPE        TRAN  COAL  PROP  86  ANONYMOUS  1980 C
  3645  CA  VENTURA        VENTURA              USA PETROLEUM                  O/G   REFN  EXIST  0  US DOE      1979 E
  3647  CA  VENTURA        OXNARD               OXNARD REFINING                O/G   REFN  EXIST  0  US DOE      1979 E
  3650  CA  LOS ANGELES    EL SEGUNDO           EL SEGUNDO                     PWR   FOSL  EXIST  0  US DOE      1979 B
  3651  CA  LOS ANGELES                         GAS FROM LANDFILL              SYN   BIOM  POST   0  ANONYMOUS, 1980 S
  3652  CA  LOS ANGELES    GARDENA              WASTE FOR ELECTRICITY          SYN   BIOM  PROP  84  ANONYMOUS, 1980 S
  3653  CA  LOS ANGELES    SAN FERNANDO         LANDFILL GAS RECOVERY          SYN   BIOM  PROP  82  ANONYMOUS, 1980 S
  3655  CA  LOS ANGELES    EL SEGUNDO           SCATTERGOOD                    PWR   FOSL  EXIST  0  US DOE      1979 B
  3660  CA  LOS ANGELES    REDONDO BEACH        REDONDO BEACH                  PWR   FOSL  EXIST  0  US DOE      1979 B
  3665  CA  LOS ANGELES    LONG BEACH HARBOR    HARBOR                         PWR   FOSL  EXIST  0  US DOE      1979 B
  3670  CA  LOS ANGELES    LONG BEACH HARBOR    LONG BEACH                     PWR   FOSL  EXIST  0  US DOE      1979 B
  3675  CA  LOS ANGELES    LONG BEACH           ALAMITOS                       PWR   FOSL  EXIST  0  US DOE      1979 B
  3680  CA  LOS ANGELES    LONG BEACH           HAYNES                         PWR   FOSL  EXIST  0  US DOE      1979 B
  3685  CA  LOS ANGELES    LONG BEACH           2 PIPELINE LANDFALLS           TRAN  PIPE  EXIST  0  CA OFC PLANNING/RES  1977
  3690  CA  LOS ANGELES    LONG BEACH           PIPELINE LANDFALL              TRAN  PIPE  PROP  81  USGS  1980 B
  3695  CA  LOS ANGELES    EL SEGUNDO           CHEVRON/4 MARINE TERMINALS     TRAN  MTER  EXIST  0  USGS  1980 B
  3700  CA  LOS ANGELES    VARIOUS              9 TREATMENT PLANTS             O/G   GAS   EXIST  0  USGS  1980 B
  3705  CA  LOS ANGELES    VARIOUS              17 REFINERIES                  O/G   REFN  EXIST  0  USGS  1980 B
  3710  CA  LOS ANGELES    LOS ANGELES HARBOR   PORT/MAX 110,000 DWT           TRAN  PORT  EXIST  0  INTL PETROLEUM DIR   1979
  3715  CA  LOS ANGELES    LONG BEACH           OIL DISTRIBUTION FACILITY      TRAN  OIL   PROP  80  USGS  1980 B
  3720  CA  LOS ANGELES    LONG BEACH           OFFSHORE OIL/GAS PRODUCTION    O/G   PLAT  EXIST  0  CA OFC PLANNING/RES  1977
  3725  CA  LOS ANGELES    LONG BEACH           OCS LEASE SALE 68              O/G   EXPL  PROP  83  USGS  1980 B
  3730  CA  LOS ANGELES    VARIOUS              ONSHORE OIL/GAS PRODUCTION     O/G   WELL  EXIST  0  USGS  1980 B
  3735  CA  LOS ANGELES    UNSITED              SO CAL EDISON/HYDROPOWER       PWR   HYD   PROP   0  ANONYMOUS  1980 T
  3740  CA  LOS ANGELES    UNSITED              SO CAL EDISON/FUEL CELLS-COGEN PWR   COGN  PROP   0  ANONYMOUS  1980 T
  3745  CA  LOS ANGELES    UNSITED              SO CAL EDISON/SOLAR            PWR   SOL   PROP   0  ANONYMOUS  1980 T
  3750  CA  LOS ANGELES    UNSITED              SO CAL EDISON/WINDMILLS        PWR   WIND  PROP  80  ANONYMOUS  1980 T
  3755  CA  LOS ANGELES    LONG BEACH           PORT/MAX 120,000 DWT           TRAN  PORT  EXIST  0  INTL PETROLEUM DIR   1979
  3760  CA  LOS ANGELES    LONG BEACH           ARCO TANKER TERMINAL           TRAN  MTER  PROP   0  NOAA  1980 A
  3765  CA  LOS ANGELES    LONG BEACH           MACMILLAN TERMINAL             TRAN  MTER  EXIST  0  NOAA  1980 A
  3769  CA  LOS ANGELES    LOS ANGELES HARBOR   COAL EXPORT FACILITIES         TRAN  COAL  EXIST  0  ANONYMOUS, 1980 B
  3770  CA  LOS ANGELES    LONG BEACH           COAL EXPORT FACILITIES         TRAN  COAL  EXPAN 82  SOROS ASSOC     1980
  3775  CA  LOS ANGELES    HARBOR               POTENTIAL DEEPWATER PORT SITE  TRAN  DPRT  POST   0  JONES/STOKES ASSOC IN PREP
  3780  CA  ORANGE         HUNTINGTON BEACH     HUNTINGTON                     PWR   FOSL  EXIST  0  US DOE      1979 B
  3785  CA  ORANGE         VARIOUS              5 PIPELINE LANDFALLS           TRAN  PIPE  EXIST  0  CA OFC PLANNING/RES  1977
  3790  CA  ORANGE         HUNTINGTON BEACH     GULF                           TRAN  MTER  EXIST  0  USGS  1980 B
  3795  CA  ORANGE         VARIOUS              7 TREATMENT PLANTS             O/G   GAS   EXIST  0  USGS  1980 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
   NO  LO  CO             CITY                  FAC                             TYPE  CODE  ST     YR  REF
 3800  CA  ORANGE         HUNTINGTON BEACH      ONSHORE OIL/GAS PRODUCTION      O/G   WELL  EXIST   0  USGS  1980 B
 3805  CA  ORANGE         HUNTINGTON BEACH      OFFSHORE O/G PRODUCTION         O/G   PLAT  EXIST   0  USGS  1980 B
 3810  CA  ORANGE         YORBA LINDA           YORBA LINDA HYDRO               PWR   HYD   PROP   81  US DOE      1979 B
 3815  CA  ORANGE         LAGUNA BEACH          KELP BIOMASS FARM               SYN   BIOM  EXIST   0  BENDER      1980
 3820  CA  SAN DIEGO      SAN ONOFRE            SAN ONOFRE                      PWR   NUKE  EXPAN  81  US DOE      1979 B
 3825  CA  SAN DIEGO      ENCINA                SDG/E MARINE TERMINAL           TRAN  MTER  EXIST   0  USGS  1980 B
 3830  CA  SAN DIEGO      ENCINA                ENCINA                          PWR   FOSL  EXIST   0  US DOE      1979 B
 3835  CA  SAN DIEGO      SAN DIEGO             STATION B                       PWR   FOSL  EXIST   0  US DOE      1979 B
 3840  CA  SAN DIEGO      SAN DIEGO             SILVERGATE                      PWR   FOSL  EXIST   0  US DOE      1979 B
 3845  CA  SAN DIEGO      SAN DIEGO             SOUTH BAY                       PWR   FOSL  EXIST   0  US DOE      1979 B
 3846  CA  SAN DIEGO      SAN DIEGO             WASTE FOR STEAM/ELECTRICITY     SYN   BIOM  PROP    0  ANONYMOUS, 1980 S
 3850  CA  SAN DIEGO      SAN DIEGO             PORT/MAX 35,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 3855  CA  SAN DIEGO      SAN DIEGO             POTENTIAL DEEPWATER PORT SITE   TRAN  DPRT  POST    0  JONES/STOKES ASSOC IN PREP
 3860  OR  MULTNOMAH      PORTLAND              OILTANKER DRYDOCKS              O/G   BASE  EXIST   0  OR DOE      1980
 3865  OR  MULTNOMAH      PORTLAND              CHEVRON REFINERY                O/G   REFN  EXIST   0  OR DOE      1980
 3870  OR  MULTNOMAH      PORTLAND              PORT/MAX 35,000 DWT             TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 3871  OR  MULTNOMAH      PORTLAND              POTENTIAL COAL EXPORT           TRAN  COAL  POST    0  OR DOE      1980
 3875  OR  MULTNOMAH      PORTLAND              SYNFUELS/GAS FROM WASTE         SYN   BIOM  POST    0  ANONYMOUS  1980 V
 3880  OR  MULTNOMAH      PORTLAND              LINCOLN STREET                  PWR   FOSL  EXIST   0  US DOE      1979 B
 3885  OR  MULTNOMAH      PORTLAND              HARBORTON                       PWR   FOSL  EXIST   0  US DOE      1979 B
 3890  OR  MULTNOMAH      PORTLAND              STATION L                       PWR   FOSL  EXIST   0  US DOE      1979 B
 3895  OR  COLUMBIA       RAINIER               TROJAN                          PWR   NUKE  EXIST   0  US DOE      1979 B
 3900  OR  COLUMBIA       CLATSKANIE            BEAVER                          PWR   FOSL  EXIST   0  US DOE      1979 B
 3905  OR  COLUMBIA                             GREEN SPRINGS                   PWR   HYD   EXIST   0  US DOE      1979 B
 3910  OR  COLUMBIA       PORT WESTWARD         GATX OIL STORAGE                TRAN  OIL   PROP    0  MATHEMATICAL SCI N W 1978
 3915  OR  COLUMBIA       RAINIER               CASCADE ENERGY CORP             O/G   REFN  PROP    0  MATHEMATICAL SCI N W 1978
 3920  OR  COLUMBIA                             COLUMBIA INDEP CORP             O/G   REFN  POST    0  OR DOE      1980
 3925  OR  COLUMBIA       PORT WESTWARD         POTENTIAL COAL EXPORT TERMINAL  TRAN  COAL  POST    0  OR DOE      1980
 3930  OR  COLUMBIA       CLATSKANIE            OIL TERMINAL                    TRAN  MTER  EXIST   0  MATHEMATICAL SCI N W 1978
 3935  OR  COLUMBIA       MIST                  GAS EXPLORATION/PRODUCTION      O/G   WELL  EXIST   0  OR DOE      1980
 3940  OR  COLUMBIA       MIST                  GAS STORAGE FACILITY            O/G   GAS   PROP    0  OR DOE      1980
 3945  OR  CLATSOP        WARRENTON             BROWN/ROOT PLATFORM FAB         O/G   OCSR  PROP    0  OR DOE      1980
 3950  OR  CLATSOP        ASTORIA               OIL TERMINALS                   TRAN  MTER  EXIST   0  OR DOE      1980
 3951  OR  CLATSOP        ASTORIA               POTENTIAL COAL EXPORT           TRAN  COAL  POST    0  OR DOE      1980
 3955  OR  CLATSOP        ASTORIA               LNG MARINE TERMINAL             O/G   LNG   POST    0  OR DOE      1980
 3960  OR  CLATSOP        VARIOUS               ONSHORE O/G EXPLORATION         O/G   WELL  PROP    0  OR DOE      1980
 3965  OR  CLATSOP        COLUMBIA RIVER MOUTH  OFFSHORE O/G EXPL-STATE WATERS  O/G   EXPL  PROP    0  OR DOE      1980
 3970  OR  CLATSOP                              COAL SLURRY/GAS PLANT/NPC       SYN   COAL  POST    0  OR DOE      1980
 3975  OR  TILLAMOOK      TRASK RIVER           HYDRO PROJECT                   PWR   HYD   PROP    0  OR DOE      1980
 3980  OR  LINCOLN                              LINCOLN PUD                     PWR   COAL  PROP    0  OR DOE      1980
 3985  OR  LINCOLN        NEWPORT               YAQUINA BAY                     TRAN  OIL   EXIST   0  MATHEMATICAL SCI N W 1978
 3990  OR  LINCOLN        NEWPORT               NORTHWEST NATURAL GAS LNG       O/G   LNG   EXIST   0  OR DOE      1980
 3995  OR  LINCOLN        NEWPORT               NNG LNG TERMINAL                TRAN  MTER  PROP    0  OR DOE      1980
 4000  OR  LINCOLN        NEWPORT               NNG PYROLYSIS/FOREST WASTE      SYN   BIOM  PROP    0  OR DOE      1980
 4005  OR  LANE                                 LEABURG                         PWR   HYD   EXIST   0  US DOE      1979 B
 4010  OR  LANE                                 WILLAMETTE                      PWR   FOSL  EXIST   0  US DOE      1979 B
 4015  OR  LANE                                 WALTERVILLE                     PWR   HYD   EXIST   0  US DOE      1979 B
 4020  OR  LANE                                 WEYCO CENTER                    PWR   FOSL  EXIST   0  US DOE      1979 B
 4025  OR  LANE                                 COUGAR                          PWR   HYD   EXIST   0  US DOE      1979 B
 4030  OR  LANE                                 DEXTER                          PWR   HYD   EXIST   0  US DOE      1979 B
 4035  OR  LANE                                 HILLS CREEK                     PWR   HYD   EXIST   0  US DOE      1979 B
 4040  OR  LANE                                 LOOKOUT POINT                   PWR   HYD   EXIST   0  US DOE      1979 B
 4045  OR  DOUGLAS                              CLEARWATER 1/2                  PWR   HYD   EXIST   0  US DOE      1979 B
 4050  OR  DOUGLAS                              LEMOLO 1/2                      PWR   HYD   EXIST   0  US DOE      1979 B
 4055  OR  DOUGLAS                              SLIDE CREEK                     PWR   HYD   EXIST   0  US DOE        79 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
  NO  LO  CO               CITY                FAC                             TYPE  CODE  ST     YR  REF
 4060 OR  DOUGLAS                              SODA SPRINGS                    PWR   HYD   EXIST   0  US DOE      1979 B
 4065 OR  DOUGLAS                              TOKETEE                         PWR   HYD   EXIST   0  US DOE      1979 B
 4070 OR  DOUGLAS          REEDSPORT           UMPQUA ESTUARY/OIL STORAGE      TRAN  OIL   EXIST   0  OR DOE      1980
 4075 OR  DOUGLAS          STATE WATERS        CHEVRON EXPLORATION             O/G   EXPL  PROP    0  OR DOE      1980
 4080 OR  COOS             COOS BAY            5 OIL TANKER TERMINALS          TRAN  OIL   EXIST   0  OR DOE      1980
 4085 OR  COOS             COOS BAY            TEXACO,UNION,CHEV TANK FARMS    TRAN  OIL   EXIST   0  OR DOE      1980
 4090 OR  COOS             COOS BAY            UNION TERMINAL                  TRAN  MTER  EXPAN   0  OR DOE      1980
 4095 OR  COOS             NORTH SPIT          PORT EXPANSION                  TRAN  OIL   PROP    0  OR DOE      1980
 4100 OR  COOS             COOS BAY            STATE LEASE                     O/G   EXPL  PROP    0  OR DOE      1980
 4105 OR  COOS             COQUILLE RIVER      HYDRO PROJECT                   PWR   HYD   PROP    0  OR DOE      1980
 4110 OR  CURRY            ILLINOIS RIVER      HYDRO PROJECT                   PWR   HYD   PROP    0  OR DOE      1980
 4115 WA  WHATCOM          CHERRY POINT        PLATFORM FABRICATION            O/G   OCSR  PROP    0  NOAA  1980 A
 4120 WA  WHATCOM          CHERRY POINT        ARCO REFINERY                   O/G   REFN  EXIST   0  PIZZO ET AL      1976
 4125 WA  WHATCOM          CHERRY POINT        MOBIL OIL                       O/G   REFN  EXIST   0  PIZZO ET AL      1976
 4130 WA  WHATCOM          FERNDALE            PORT/MAX 150,000 DWT            TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 4135 WA  WHATCOM                              NOOKSACK                        PWR   HYD   EXIST   0  US DOE      1979 B
 4140 WA  WHATCOM          BAKER RIVER         UPPER BAKER                     PWR   HYD   EXIST   0  US DOE      1979 B
 4145 WA  WHATCOM                              WHITEHORN                       PWR   FOSL  EXIST   0  US DOE      1979 B
 4150 WA  WHATCOM                              GORGE                           PWR   HYD   EXIST   0  US DOE      1979 B
 4155 WA  WHATCOM                              DIABLO                          PWR   HYD   EXIST   0  US DOE      1979 B
 4160 WA  WHATCOM                              NEW HALEM                       PWR   HYD   EXIST   0  US DOE      1979 B
 4165 WA  WHATCOM          BELLINGHAM          ROSS DAM                        PWR   HYD   PROP    0  NOAA  1980 A
 4166 WA  WHATCOM          BELLINGHAM          POTENTIAL COAL EXPORT           TRAN  COAL  POST    0  SOROS ASSOC      1980
 4170 WA  WHATCOM          NEW HALEM           COPPER CREEK DAM                PWR   HYD   PROP    0  NOAA  1980 A
 4175 WA  SKAGIT           ANACORTES           SHELL OIL                       O/G   REFN  EXIST   0  PIZZO ET AL      1976
 4180 WA  SKAGIT           ANACORTES           TEXACO                          O/G   REFN  EXIST   0  PIZZO ET AL      1976
 4185 WA  SKAGIT           ANACORTES           PORT/MAX 100,000 DWT            TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 4190 WA  SKAGIT           BAKER RIVER         LOWER BAKER                     PWR   HYD   EXIST   0  US DOE      1979 B
 4195 WA  SKAGIT           SEDRO WOOLEY        SKAGIT                          PWR   NUKE  PROP   87  US DOE      1979 B
 4200 WA  SNOHOMISH        EVERETT             NORTON AVE TERMINAL             O/G   GAS   PROP    0  NOAA  1980 A
 4201 WA  SNOHOMISH        EVERETT             LOW BTU GAS FROM WOOD WASTE     SYN   BIOM  PROP    0  ANONYMOUS, 1980 S
 4202 WA  SNOHOMISH        EVERETT             PORT                            TRAN  PORT  EXIST   0  SOROS ASSOC, 1980
 4205 WA  SNOHOMISH        SULTAN RIVER        CULMBACH DAM                    PWR   HYD   EXPAN   0  FERC  1980 C
 4210 WA  KING                                 SHUFFLETON                      PWR   FOSL  EXIST   0  US DOE      1979 B
 4212 WA  KING             SEATTLE             PORT                            TRAN  PORT  EXIST   0  SOROS ASSOC, 1980
 4215 WA  KING                                 SNOQUALMIE                      PWR   HYD   EXIST   0  US DOE      1979 B
 4220 WA  KING                                 ROSS DAM                        PWR   HYD   EXIST   0  US DOE      1979 B
 4225 WA  KING                                 CEDAR FALLS                     PWR   HYD   EXIST   0  US DOE      1979 B
 4230 WA  KING                                 GEORGETOWN                      PWR   FOSL  EXIST   0  US DOE      1979 B
 4235 WA  KING                                 LAKE UNION                      PWR   FOSL  EXIST   0  US DOE      1979 B
 4240 WA  KING                                 UNSITED                         PWR   FOSL  PROP    0  US DOE      1979 B
 4245 WA  PIERCE           TACOMA              US OIL/REFINING                 O/G   REFN  EXPAN  82  US DOE      1979 E
 4246 WA  PIERCE           TACOMA              POTENTIAL COAL EXPORT           TRAN  COAL  POST    0  SOROS ASSOC      1980
 4250 WA  PIERCE           TACOMA              SOUND REFINING                  O/G   REFN  EXIST   0  PIZZO ET AL      1976
 4255 WA  PIERCE           TACOMA              PORT/MAX 120,000 DWT            TRAN  PORT  EXIST   0  INTL PETROLEUM DIR    1979
 4260 WA  PIERCE           FORT LEWIS          SYNFUELS PILOT PLANT            SYN   COAL  EXIST   0  MARSHALL    1980
 4262 WA  PIERCE           TACOMA              ETHANOL FROM CORN/BREWERY       SYN   BIOM  PROP    0  ANONYMOUS, 1980 S
 4265 WA  PIERCE                               CRYSTAL MOUNTAIN                PWR   FOSL  EXIST   0  US DOE      1979 B
 4270 WA  PIERCE                               ELECTRON                        PWR   HYD   EXIST   0  US DOE      1979 B
 4275 WA  PIERCE                               WHITE RIVER                     PWR   HYD   EXIST   0  US DOE      1979 B
 4280 WA  PIERCE                               ALDER                           PWR   HYD   EXIST   0  US DOE      1979 B
 4285 WA  PIERCE                               LA GRANDE                       PWR   HYD   EXIST   0  US DOE      1979 B
 4290 WA  THURSTON                             CENTRALIA                       PWR   HYD   EXIST   0  US DOE      1979 B
 4295 WA  MASON                                CUSHMAN 1/2                     PWR   HYD   EXIST   0  US DOE      1979 B
 4300 WA  ISLAND                               SOUTH WHIDBEY                   PWR   FOSL  EXIST   0  US DOE      1979 B
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
   NO LO  CO                CITY                 FAC                          TYPE CODE ST     YR REF
 4305 WA  SAN JUAN                               EAST SOUND                   PWR  FOSL EXIST   0 US DOE     1979 B
 4310 WA  THURSTON          OLYMPIA              PORT                         TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4315 WA  PUGET SOUND       10 PORTS             MARINE TERMINALS             TRAN MTER EXIST   0 PIZZO ET AL      1976
 4320 WA  PUGET SOUND       VARIOUS              TRANSMOUNTAIN PIPELINE       TRAN OIL  EXIST   0 PIZZO ET AL      1976
 4325 WA  PUGET SOUND       VARIOUS              OLYMPIC PIPELINE             TRAN OIL  EXIST   0 PIZZO ET AL      1976
 4330 WA  CLALLAM           PORT ANGELES         NORTHERN TIER PIPELINE       TRAN OIL  PROP    0 NOAA  1980 A
 4331 WA  CLALLAM           PORT ANGELES         PORT                         TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4335 WA  CLALLAM           LOW POINT            TRANSMOUNTAIN PIPELINE       TRAN OIL  PROP    0 JOE WILLIAMS, WA D O ECOL
 4339 WA  JEFFERSON         PORT TOWNSEND        PORT                         TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4340 WA  JEFFERSON                              WELLS                        PWR  HYD  EXIST   0 US DOE     1979 B
 4345 WA  GRAYS HARBOR      GRAYS HARBOR         FABRICATION YARD             O/G  OCSR PROP    0 NOAA  1980 A
 4346 WA  GRAYS HARBOR      HOQUIAM              PORT                         TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4349 WA  GRAYS HARBOR                           WYNOOCHEE RIVER DAM          PWR  HYD  PROP    0 ANONYMOUS, 1980 P
 4350 WA  GRAYS HARBOR                           SATSOP                       PWR  NUKE PROP   84 US DOE     1979 B
 4355 WA  GRAYS HARBOR      OCEAN CITY           OIL/GAS PRODUCTION           O/G  WELL EXIST   0 OR DOE     1980
 4360 WA  COWLITZ           LONGVIEW             PORT ON COLUMBIA RIVER       TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4365 WA  COWLITZ           KALAMA               PORT ON COLUMBIA RIVER       TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4370 WA  CLARK             VANCOUVER            PORT ON COLUMBIA RIVER       TRAN PORT EXIST   0 SOROS ASSOC, 1980
 4400 AK  PRINCE/WALES      KLAWOCK              BLACK BEAR LAKE              PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4401 AK  PRINCE/WALES      KLAWOCK              ETHANOL FROM WOOD WASTE      SYN  BIOM POST    0 ANONYMOUS, 1980 S
 4405 AK  KETCHIKAN         KETCHIKAN            SWAN LAKE                    PWR  HYD  PROP   85 NOAA  1980 A
 4410 AK  WRANGELL-PTBG     WRANGELL             LAKE YYEE                    PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4415 AK  WRANGELL-PTBG     KAKE                 GUNNUK CREEK                 PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4420 AK  SITKA             SITKA                GREEN LAKE                   PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4425 AK  ANGOON            ANGOON               THAYER CREEK                 PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4430 AK  JUNEAU            JUNEAU               SNETTISHAM PLANT             PWR  HYD  EXIST   0 US DOE     1979 B
 4435 AK  HAINES            HAINES               LARSON BAY/OLD HARBOR        PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4440 AK  HAINES            HAINES               CHILKAT RIVER                PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4445 AK  SKAGWY-YAKUTAT    SKAGWAY              ALCAN PIPELINE               O/G  BASE PROP    0 NOAA  1980 A
 4450 AK  SKAGWY-YAKUTAT    YAKUTAT SHELF        OCS LEASE                    O/G  EXPL PROP    0 BLM   1980 E
 4455 AK  SKAGWY-YAKUTAT    YAKUTAT              SERVICE BASE                 O/G  BASE POST    0 BLM   1980 E
 4460 AK  SKAGWY-YAKUTAT    YAKUTAT              PIPELINE LANDFALLS           TRAN PIPE POST    0 BLM   1980 E
 4465 AK  SKAGWY-YAKUTAT    YAKUTAT              MARINE TERMINAL              TRAN MTER POST    0 BLM   1980 E
 4470 AK  SKAGWY-YAKUTAT    YAKUTAT              LNG PLANT                    O/G  LNG  POST    0 BLM   1980 E
 4475 AK  CORDOVA           YAKATAGA SHELF       OCS LEASE                    O/G  EXPL PROP    0 BLM   1980 E
 4480 AK  CORDOVA           MIDDLETON SHELF      OCS LEASE                    O/G  EXPL PROP    0 BLM   1980 E
 4485 AK  CORDOVA           ICY BAY              SERVICE BASE                 O/G  BASE POST    0 BLM   1980 E
 4490 AK  CORDOVA           ICY BAY              LNG PLANT                    O/G  LNG  POST    0 BLM   1980 E
 4495 AK  CORDOVA           KAYAK ISLAND         SERVICE BASE                 O/G  BASE POST    0 BLM   1980 E
 4500 AK  CORDOVA           KAYAK ISLAND         LNG PLANT                    O/G  LNG  POST    0 BLM   1980 E
 4505 AK  CORDOVA           COPPER RIVER BASIN   ONSHORE STATE LEASE          O/G  WELL PROP   82 OCZM  1979
 4510 AK  CORDOVA           CORDOVA              SERVICE BASE                 O/G  BASE POST    0 BLM   1980 E
 4515 AK  CORDOVA           CORDOVA              POWER CREEK                  PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4520 AK  CORDOVA           CORDOVA              COAL PIPELINE TERMINAL       TRAN COAL POST    0 GERALD REID, FWS
 4525 AK  CORDOVA           PORT ECHES           MARINE TERMINAL              TRAN MTER POST    0 BLM   1980 E
 4530 AK  CORDOVA           PORT ECHES           PIPELINE LANDFALL            TRAN PIPE POST    0 BLM   1980 E
 4535 AK  CORDOVA           PORT ECHES           LNG PLANT                    O/G  LNG  POST    0 BLM   1980 E
 4540 AK  VALDEZ            VALDEZ               MARINE TERMINAL              TRAN MTER EXIST   0 AK DEPT COMMERCE/E D  1979
 4545 AK  VALDEZ            VALDEZ               ALPETCO REFINERY             O/G  REFN PROP   85 AK DEPT COMMERCE/E D  1979
 4550 AK  VALDEZ            VALDEZ               SOLOMON GULCH                PWR  HYD  PROP    0 AK DEPT COMMERCE/E D  1979
 4555 AK  SEWARD            SEWARD               SERVICE BASE                 O/G  BASE POST    0 BLM   1980 E
 4560 AK  SEWARD            SEWARD               SEWARD HYDRO SITE            PWR  HYD  POST    0 NOAA  1980 A
 4565 AK  SEWARD            SEWARD               COPPER LAKE                  PWR  HYD  EXIST   0 US DOE     1979 B
 4570 AK  ANCHORAGE         ANCHORAGE            ANCHORAGE 1/2                PWR  FOSL EXIST   0 US DOE     1979 B
 4575 AK  ANCHORAGE         ANCHORAGE            SULLIVAN                     PWR  FOSL EXIST   0 US DOE       79 B
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8:47     1/26/81     APL DATA INTERFACE
COASTI;ALL;HSORT
  NO  LO  CD              CITY                  FAC                            TYPE  CODE  ST     YR  REF
4580  AK  ANCHORAGE       ANCHORAGE             INTERNATIONAL                  PWR   FOSL  EXIST   0  US DOE      1979 B
4585  AK  ANCHORAGE       ANCHORAGE             EAGLE RIVER                    PWR   HYD   POST    0  NOAA  1980 A
4590  AK  MATANUSKA       COOK INLET            KNIK ARM                       PWR   FOSL  EXIST   0  US DOE      1979 B
4595  AK  MATANUSKA       COOK INLET            BELUGA                         PWR   FOSL  EXIST   0  US DOE      1979 B
4600  AK  MATANUSKA       MATANUSKA             EKLUTNA                        PWR   HYD   EXIST   0  US DOE      1979 B
4605  AK  MATANUSKA       KNIK ARM              TIDAL PROJECT                  PWR   TIDE  POST    0  GERALD REID, FWS
4610  AK  MATANUSKA       COOK INLET            COAL SYNFUELS/METHANOL         SYN   COAL  POST    0  ANONYMOUS  1980 V
4615  AK  MATANUSKA       COOK INLET            COAL EXPORT TERMINAL           TRAN  COAL  POST    0  SOROS ASSOC      1980
4620  AK  MATANUSKA       UPPER COOK INLET      OFFSHORE STATE LEASE           O/G   EXPL  PROP    0  OCZM  1979
4625  AK  MATANUSKA       COOK INLET/SUSITNA    ONSHORE STATE LEASES           O/G   WELL  PROP    0  OCZM  1979
4630  AK  KENAI           DRIFT RIVER           MARINE TERMINAL                TRAN  MTER  EXIST   0  AK O/G CONS COMM      1980
4635  AK  KENAI           TRADING BAY           PRODUCTION FACILITIES          O/G   GAS   EXIST   0  AK O/G CONS COMM      1980
4640  AK  KENAI           TYONEK                ARCO-TEXACO PROD FACILITES     O/G   GAS   EXIST   0  AK O/G CONS COMM      1980
4645  AK  KENAI           TRADING BAY-N/S       PIPELINE LANDFALLS             TRAN  PIPE  EXIST   0  AK O/G CONS COMM      1980
4650  AK  KENAI           COOK INLET/STATE      14 O/G PLATFORMS               O/G   PLAT  EXIST   0  AK O/G CONS COMM      1980
4655  AK  KENAI           NIKISHKA              PIPELINE LANDFALL              TRAN  PIPE  EXIST   0  AK O/G CONS COMM      1980
4660  AK  KENAI           NIKISKI               CHEVRON                        O/G   REFN  EXIST   0  AK O/G CONS COMM      1980
4665  AK  KENAI           NIKISKI               TESORO REFINERY                O/G   REFN  EXIST   0  AK O/G CONS COMM      1980
4670  AK  KENAI           NIKISKI               PHILLIPS/MARATHON LNG          O/G   LNG   EXIST   0  AK O/G CONS COMM      1980
4675  AK  KENAI           NIKISKI               MARINE TERMINALS               TRAN  MTER  EXIST   0  AK O/G CONS COMM      1980
4680  AK  KENAI           NIKISKI               SERVICE BASE                   O/G   BASE  EXIST   0  AK O/G CONS COMM      1980
4685  AK  KENAI           KENAI                 ONSHORE PRODUCTION             O/G   WELL  EXIST   0  AK O/G CONS COMM      1980
4690  AK  KENAI           DRIFT RIVER           ONSHORE GAS PRODUCTION         O/G   WELL  EXIST   0  AK O/G CONS COMM      1980
4692  AK  KENAI           COOK INLET            TIDAL PROPOSAL SOLICITATION    PWR   TIDE  POST    0  ANONYMOUS  1980 I
4695  AK  KENAI           KENAI                 BERNICE LAKE                   PWR   FOSL  EXIST   0  US DOE      1979 B
4700  AK  KENAI           KENAI                 PACIFIC ALASKA LNG             O/G   LNG   PROP   85  AK DEPT COMMERCE/E D  1979
4705  AK  KENAI           KENAI                 ROYALTY OIL REFINERY           O/G   REFN  PROP    0  NOAA  1980 A
4710  AK  KENAI           HOMER                 BRADLEY LAKE                   PWR   HYD   PROP    0  AK DEPT COMMERCE/E D  1979
4715  AK  KENAI           LOWER COOK INLET      STATE OFFSHORE LEASE           O/G   EXPL  PROP   80  OCZM  1979
4720  AK  KENAI           COOK INLET-SHELIKOFF  OCS LEASE                      O/G   EXPL  PROP   81  BLM   1979 C
4725  AK  KENAI           HOMER                 SERVICE BASE                   O/G   BASE  POST    0  BLM   1979 C
4730  AK  KENAI           SO KENAI              PIPELINE LANDFALL              TRAN  PIPE  POST    0  BLM   1979 C
4735  AK  KENAI           DRIFT RIVER           GAS PIPELINE LANDFALL          TRAN  PIPE  POST    0  BLM   1979 C
4740  AK  KODIAK          KODIAK                KODIAK PLANT                   PWR   FOSL  EXIST   0  US DOE      1979 B
4745  AK  KODIAK          KODIAK                TERROR LAKE                    PWR   HYD   PROP   84  US DOE      1979 B
4750  AK  KODIAK          KODIAK                KODIAK A                       PWR   HYD   PROP   81  US DOE      1979 B
4755  AK  KODIAK          AFOGNAK IS/WEST       SERVICE BASE                   O/G   BASE  POST    0  BLM   1979 C
4760  AK  KODIAK          AFOGNAK IS/WEST       PIPELINE LANDFALL              TRAN  PIPE  POST    0  BLM   1979 C
4765  AK  KODIAK          AFOGNAK IS/EAST       SERVICE BASE                   O/G   BASE  POST    0  BLM   1979 C
4770  AK  KODIAK          AFOGNAK IS/EAST       LNG PLANT                      O/G   LNG   POST    0  BLM   1979 C
4775  AK  KODIAK          AFOGNAK IS/EAST       MARINE TERMINAL                TRAN  MTER  POST    0  BLM   1979 C
4780  AK  KODIAK          AFOGNAK IS/EAST       PIPELINE LANDFALL              TRAN  PIPE  POST    0  BLM   1979 C
4785  AK  KODIAK          UGAK BAY              SERVICE BASE                   O/G   BASE  POST    0  BLM   1979 C
4790  AK  KODIAK          UGAK BAY              LNG PLANT                      O/G   LNG   POST    0  BLM   1979 C
4795  AK  KODIAK          UGAK BAY              MARINE TERMINAL                TRAN  MTER  POST    0  BLM   1979 C
4800  AK  KODIAK          UGAK BAY              PIPELINE LANDFALL              TRAN  PIPE  POST    0  BLM   1979 C
4805  AK  KODIAK          OLD HARBOR            SERVICE BASE                   O/G   BASE  POST    0  BLM   1979 C
4810  AK  BRISTOL BAY     BRISTOL BAY           ONSHORE STATE LEASE            O/G   WELL  PROP   82  OCZM  1979
4815  AK  BRISTOL BAY     DILLINGHAM            LAKE ELVA                      PWR   HYD   PROP    0  AK DEPT COMMERCE/E D  1979
4820  AK  ALEUTIAN IS     NO ALEUTIAN SHELF     OCS LEASE                      O/G   EXPL  PROP   83  BLM   1980 D
4825  AK  ALEUTIAN IS     ST GEORGE BASIN       OCS LEASE                      O/G   EXPL  PROP   82  BLM   1980 D
4830  AK  ALEUTIAN IS     COLD BAY              SERVICE BASE                   O/G   BASE  POST    0  JUDY GOTTLIEB   BLM
4835  AK  ALEUTIAN IS     COLD BAY              PIPELINE LANDFALL              TRAN  PIPE  POST    0  JUDY GOTTLIEB   BLM
4840  AK  ALEUTIAN IS     SOUTH COAST           LNG PLANT                      O/G   LNG   POST    0  JUDY GOTTLIEB   BLM
4845  AK  ALEUTIAN IS     SOUTH COAST           MARINE TERMINAL                TRAN  MTER  POST    0  JUDY GOTTLIEB   BLM
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8:47    1/26/81    APL DATA INTERFACE
COASTI;ALL;HSORT
   NO  LO  CO              CITY                 FAC                             TYPE  CODE  ST     YR  REF
 4850  AK  ALEUTIAN IS     ONSHORE              TRANSPENINSULA PIPELINE         TRAN  PIPE  POST    0  JUDY GOTTLIEB   BLM
 4855  AK  ALEUTIAN IS     UNALASKA             PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1980 D
 4860  AK  ALEUTIAN IS     UNALASKA             MARINE TERMINAL                 TRAN  MTER  POST    0  BLM   1980 D
 4865  AK  ALEUTIAN IS     UNALASKA             LNG PLANT                       O/G   LNG   POST    0  BLM   1980 D
 4870  AK  ALEUTIAN IS     UNALASKA             SERVICE BASE                    O/G   BASE  POST    0  BLM   1980 D
 4875  AK  BETHEL          NAVARIN BASIN        OCS LEASE                       O/G   EXPL  PROP   84  BLM   1980 D
 4880  AK  BETHEL          BETHEL               KISARALIK RIVER                 PWR   HYD   PROP    0  AK DEPT COMMERCE/E D  1979
 4885  AK  NOME            NORTON BASIN         OCS LEASE                       O/G   EXPL  PROP   82  BLM   1980 D
 4890  AK  NOME            NORTON SOUND         ONSHORE STATE LEASE             O/G   WELL  PROP   81  AK DEPT COMMERCE/E D  1979
 4895  AK  NOME            NORTON SOUND         OFFSHORE STATE LEASE            O/G   EXPL  PROP   82  AK DEPT COMMERCE/E D  1979
 4900  AK  NOME            SEWARD PENINSULA     GEOTHERMAL                      OTHR  GEO   POST    0  AK O/G CONS COMM     1980
 4905  AK  NOME            PASTOL BAY           SERVICE BASE                    O/G   BASE  POST    0  BLM   1980 D
 4910  AK  NOME            PASTOL BAY           MARINE TERMINAL                 TRAN  MTER  POST    0  BLM   1980 D
 4915  AK  NOME            PASTOL BAY           PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1980 D
 4920  AK  NOME            ST MICHAELS BAY      SERVICE BASE                    O/G   BASE  POST    0  BLM   1980 D
 4925  AK  NOME            ST MICHAELS BAY      MARINE TERMINAL                 TRAN  MTER  POST    0  BLM   1980 D
 4930  AK  NOME            GOLOVIN BAY          PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1980 A
 4935  AK  NOME            NOME                 SERVICE BASE                    O/G   BASE  POST    0  BLM   1980 A
 4940  AK  NOME            NOME                 LNG PLANT                       O/G   LNG   POST    0  BLM   1980 A
 4945  AK  NOME            NOME                 MARINE TERMINAL                 TRAN  MTER  POST    0  BLM   1980 A
 4950  AK  NOME            NOME                 PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1980 A
 4954  AK  KOBUK           PT LAY/NORTON SOUND  COAL FOR LOCAL FUEL             OTHR  COAL  POST    0  ANONYMOUS, 1980 B
 4955  AK  KOBUK           HOPE BASIN           OCS LEASE                       O/G   EXPL  PROP    0  BLM   1980 D
 4960  AK  KOBUK           KOTZEBUE SOUND       SERVICE BASE                    O/G   BASE  POST    0  BLM   1980 D
 4965  AK  KOBUK           KOTZEBUE SOUND       MARINE TERMINAL                 TRAN  MTER  POST    0  BLM   1980 D
 4970  AK  KOBUK           KOTZEBUE SOUND       PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1980 D
 4975  AK  KOBUK           KOTZEBUE SOUND       LNG PLANT                       O/G   LNG   POST    0  BLM   1980 D
 4980  AK  BARROW          CHUKCHI BASIN        OCS LEASE                       O/G   EXPL  PROP   85  BLM   1980 D
 4985  AK  BARROW          BEAUFORT BASIN       OCS LEASE                       O/G   EXPL  PROP   80  BLM   1980 D
 4990  AK  BARROW          BEAUFORT             OFFSHORE STATE LEASE            O/G   EXPL  PROP   80  OCZM  1979
 4995  AK  BARROW          CHUKCHI              OFFSHORE STATE LEASE            O/G   EXPL  PROP   83  OCZM  1979
 5000  AK  BARROW          PRUDHOE BAY          ONSHORE STATE LEASE             O/G   WELL  PROP   81  OCZM  1979
 5005  AK  BARROW          ARCTIC SLOPE         ONSHORE STATE LEASE             O/G   WELL  PROP   81  OCZM  1979
 5010  AK  BARROW          PRUDHOE BAY          ONSHORE OIL/GAS PRODUCTION      O/G   WELL  EXIST   0  AK O/G CONS COMM     1980
 5015  AK  BARROW          PRUDHOE BAY          GAS TREATMENT PLANT             O/G   GAS   PROP    0  AK DEPT COMMERCE/E D  1979
 5020  AK  BARROW          SMITH BAY            SERVICE BASE                    O/G   BASE  POST    0  BLM   1978 A
 5025  AK  BARROW          CAPE HALKETT         SERVICE BASE                    O/G   BASE  POST    0  BLM   1978 A
 5030  AK  BARROW          CAPE HALKETT         PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1978 A
 5035  AK  BARROW          JONES ISLAND         SERVICE BASE                    O/G   BASE  POST    0  BLM   1978 A
 5040  AK  BARROW          JONES ISLAND         PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1978 A
 5045  AK  BARROW          PRUDHOE BAY          SERVICE BASE                    O/G   BASE  POST    0  BLM   1978 A
 5050  AK  BARROW          PRUDHOE BAY          PIPELINE LANDFALLS              TRAN  PIPE  POST    0  BLM   1978 A
 5055  AK  BARROW          CAMDEN-CANNING       SERVICE BASE                    O/G   BASE  POST    0  BLM   1978 A
 5060  AK  BARROW          CAMDEN-CANNING       PIPELINE LANDFALL               TRAN  PIPE  POST    0  BLM   1978 A
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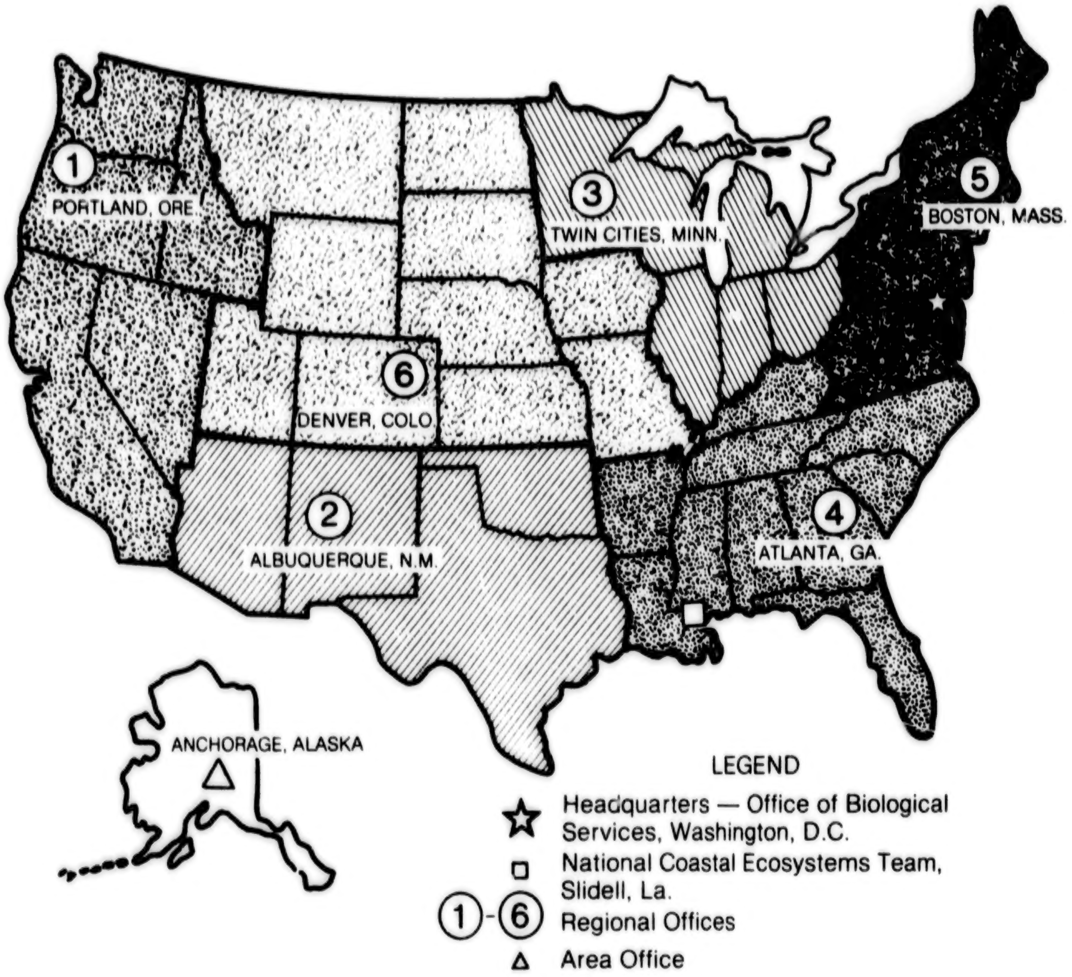

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DEPARTMENT OF THE INTERIOR

U.S. FISH AND WILDLIFE SERVICE

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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